

DBHYDRO Browser User Documentation

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What is DBHYDRO?

"DBHYDRO" is the South Florida Water Management District's (the District) hydrometeorologic, water quality, and hydrogeologic data retrieval system. This corporate database is the source of historical and up-to-date data for the region covered by the District. To produce DBHYDRO, the District participates in a cooperative program with other agencies, such as the U.S. Geological Survey, Everglades National Park, the United States Army Corps of Engineers, Lake Worth Drainage District, and the U.S. Department of Agriculture. DBHYDRO allows users to access over 30,000 station-years of data, collected at over 6000 stations in and around the District. Not only does DBHYDRO contain hydrologic and water quality data, but it also stores additional information about sites, structure characteristics, and stations where data are collected. Accurate descriptions are available for most gauging sites, giving the user information on basin, latitude, longitude, state plane coordinates, quad sheet location, county, section, township, range and many other useful data.

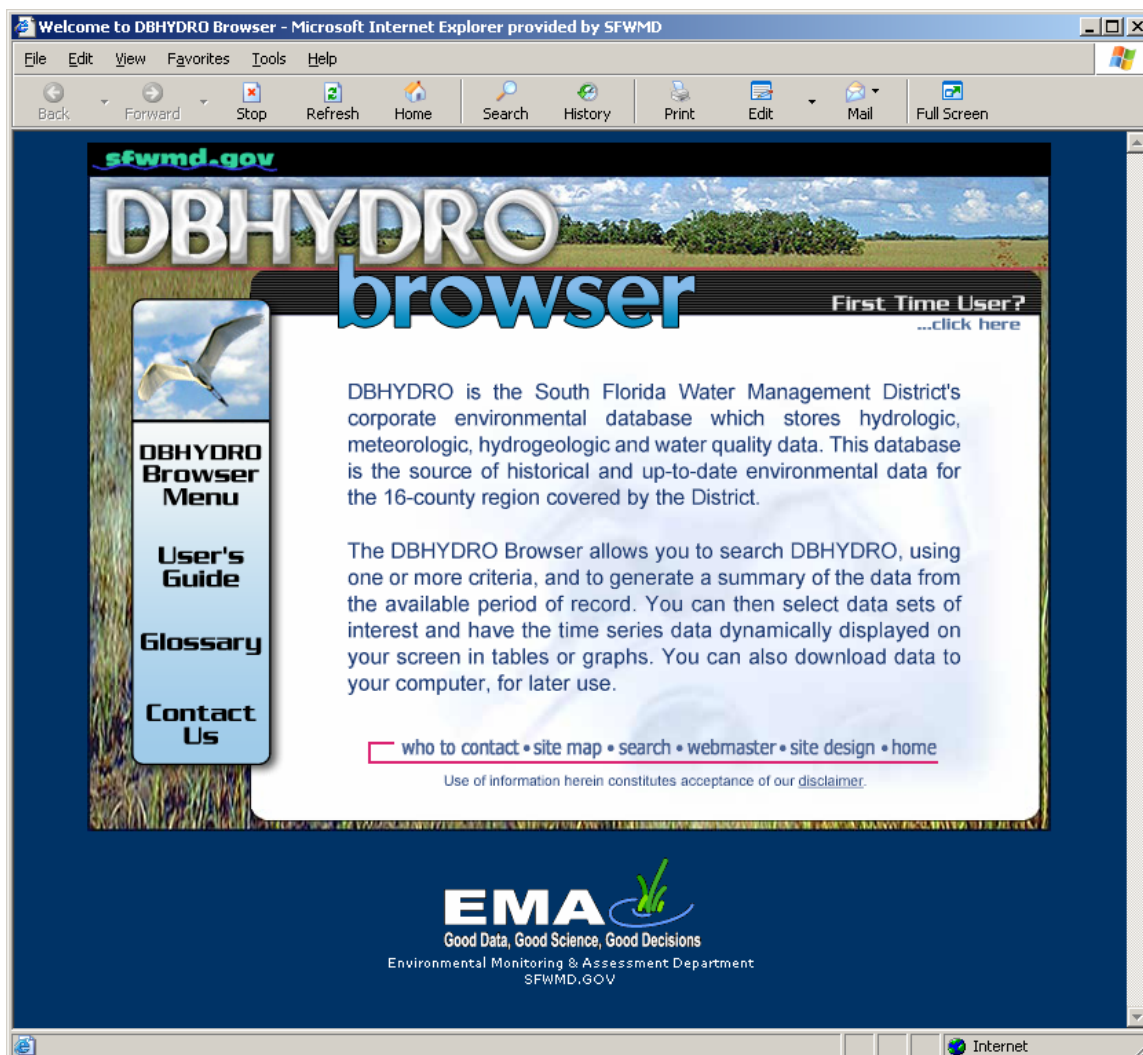
One of the more powerful aspects of DBHYDRO is that data can be retrieved in a variety of ways. It is not necessary to know the identification number (ID) of a particular station, the database can be scanned to locate all stations that meet certain criteria, such as a given basin, county, or coordinate window. The DBHYDRO database has become an important reference for hydrologic and water quality investigations in South Florida. The application that allows users to specify search criteria and retrieve data from DBHYDRO is called "DBHYDRO Browser".

What is DBHYDRO Browser?

The DBHYDRO Browser is a web-based application that allows users to browse the South Florida Water Management District corporate environmental database, DBHYDRO, using one or more criteria to generate a summary listing of time series. The user can then select a time series of interest and have the time series data dynamically displayed on their screen in tables or graphs. The technology upon which DBHYDRO Browser is based makes it easier to include your suggestions for improvement. Therefore, your feedback is highly encouraged so that we can incorporate desired functionality.

Getting Started

Internet access is provided for the public at <http://www.sfwmd.gov/org/ema/dbhydro>



District employees may start the DBHYDRO Browser by first selecting “Business Online” from the District’s Home Page on the District’s intranet, and then selecting “DBHYDRO Browser”.

This is the DBHYDRO Browser main page. This page is similar for both internal and external users.



Surface Water and Meteorological Data

Selecting "Surface Water and Meteorological Data" will lead to the following screen: This is where you check off the boxes for the parameters you want to use to filter out which surface water data you care about.

Select Search Parameters

DBKEY	<input type="checkbox"/>	Station	<input type="checkbox"/>
Station Description	<input type="checkbox"/>	Group Name	<input type="checkbox"/>
Station Id	<input type="checkbox"/>	Site	<input type="checkbox"/>
Data Type	<input type="checkbox"/>	Frequency	<input type="checkbox"/>
Statistic Type	<input type="checkbox"/>	Strata	<input type="checkbox"/>
Recorder	<input type="checkbox"/>	Structure Type	<input type="checkbox"/>
Agency	<input type="checkbox"/>	County	<input type="checkbox"/>
Basin	<input type="checkbox"/>	X-Y Coordinates	<input type="checkbox"/>
Latitude/Longitude	<input type="checkbox"/>	Township	<input type="checkbox"/>
Range	<input type="checkbox"/>	Section	<input type="checkbox"/>
USGS Id	<input type="checkbox"/>	Site Id	<input type="checkbox"/>

[Use Existing Parameter File](#)

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Each parameter is hyperlinked to a textual description of that parameter. For instance, selecting [Agency](#) leads to the following help text:

Agency

The agency responsible for the quality control of the specific time series.

Clicking on the browser's "Back" button returns you to the Select Surface Water Search Parameters menu.

In the following example, the Agency, Data Type, and County parameters have been checked off:

Select Search Parameters

DBKEY	<input type="checkbox"/>	Station	<input type="checkbox"/>
Station Description	<input type="checkbox"/>	Group Name	<input type="checkbox"/>
Station Id	<input type="checkbox"/>	Site	<input type="checkbox"/>
Data Type	<input checked="" type="checkbox"/>	Frequency	<input type="checkbox"/>
Statistic Type	<input type="checkbox"/>	Strata	<input type="checkbox"/>
Recorder	<input type="checkbox"/>	Structure Type	<input type="checkbox"/>
Agency	<input checked="" type="checkbox"/>	County	<input checked="" type="checkbox"/>
Basin	<input type="checkbox"/>	X-Y Coordinates	<input type="checkbox"/>
Latitude/Longitude	<input type="checkbox"/>	Township	<input type="checkbox"/>
Range	<input type="checkbox"/>	Section	<input type="checkbox"/>
USGS Id	<input type="checkbox"/>	Site Id	<input type="checkbox"/>

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Clicking on the "Submit" button leads to the following screen:

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The main content area is titled "DBHYDRO Query Criteria" and contains the following elements:

- Data Type:** A dropdown menu with "ALL" selected. The list of options includes AIR TEMPERATURE, BAROMETRIC PRESSURE, DEPTH, and EVAPOTRANSPIRATION.
- Agency:** A dropdown menu with "ALL" selected. The list of options includes ACME IMPROVEMENT DISTRICT, CITY OF WEST PALM BEACH, DADE COUNTY, and DEPARTMENT OF ENVIROMENTAL REGULATION.
- County:** A dropdown menu with "ALL" selected. The list of options includes BREVARD, BROWARD, CHARLOTTE, and CITRUS.
- Show Active Time Series Only:** A checkbox that is currently unchecked.
- Buttons:** "Submit" and "Clear" buttons are positioned side-by-side. Below them is a "Save Parameter File" button.
- Footer:** A row of links: [DBHYDRO Home](#), [iweb](#), [xweb](#), [What's New](#), [FAQ](#), and [Comments?](#)

As you can see, only those parameters relevant to surface water or meteorological data can now be queried. This feature helps keep the list of query criteria from getting unnecessarily large and keeps the presented information on one page most of the time. Each list of values allows one or more selections using the CTRL or SHIFT keys in conjunction with the mouse.

The criteria fields are filled in by selecting from the lists of values:

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The browser's address bar and menu bar are visible. The main content area displays the "DBHYDRO Query Criteria" form. The form includes several dropdown menus: "Data Type" with options like BAROMETRIC PRESSURE, DEPTH, EVAPOTRANSPIRATION, FLASHBOARD WEIR ELEVATION, and FLOW (selected); "Agency" with options like NATL. OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION, NORTH SPRINGS IMPROVEMENT DISTRICT, SOUTH FLORIDA WATER MANAGEMENT DISTRICT (selected), SOUTH WEST FLORIDA WATER MANAGEMENT DISTRICT, and U.S. ARMY CORPS OF ENGINEERS; and "County" with options like ORANGE, OSCEOLA, PALM BEACH (selected), PASCO, and PINELLAS. There is a checkbox for "Show Active Time Series Only" which is unchecked. Below the dropdowns are radio buttons for "Pick Time Series Individually" (selected) and "Get All Data". An "Order By:" dropdown menu is set to "STATION". At the bottom of the form are "Submit" and "Clear" buttons, and a "Save Parameter File" button. A navigation bar at the very bottom contains links: [Main Menu](#), [IWEB](#), [XWEB](#), [User's Guide](#), [What's New](#), [FAQ](#), [Guest Book](#), and [Comments?](#). The browser's status bar at the bottom indicates "Internet".

In the above example, SFWMD flows in Palm Beach County are of interest. At this point, one may save a parameter file. The parameter file allows selected criteria to be stored on the user's individual computer such that the criteria may be recalled at any future date. This feature is helpful for frequently run queries to minimize keystrokes and mouse events required to get data.

One may order the subsequent output by any of the available output columns. By default, the output will be output in "Station" order.

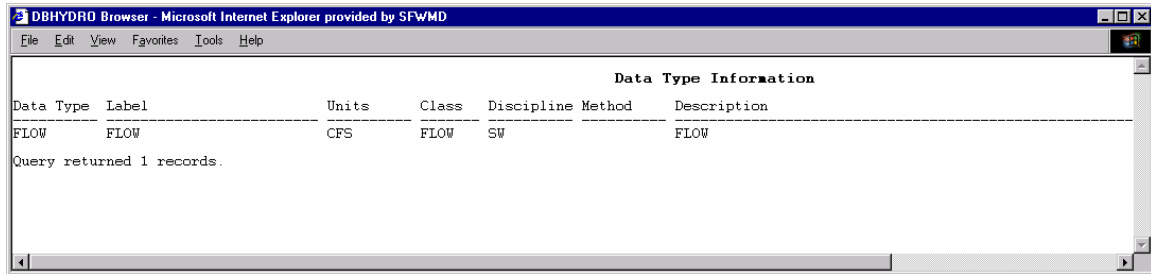
Frequent users may wish to bypass the next screen in order to go right to getting data. This technique is useful if you know your query will return only a few data sets interactively or you wish to submit a batch request. More information on batch requests is provided later on. To invoke the bypass feature choose the radio button marked "Get All Data". In our example here, we do not bypass the time series list because we want to pick and choose specific data sets.

Clicking on the "Submit" button results in the following "metadata" list:

Time Series Listing																			
Get Data	Dbkey	Station	Group	Data Type	Freq	Stat	Recorder	Agency	Start Date	End Date	Strata	County	Op Num	Latitude	Longitude	Basin	Struct	Section	Township
<input type="checkbox"/>	J0088	ACME1	ACME1	FLOW	DA	MEAN	CR10	WMD	09-SEP-1999	31-OCT-2002	0	PAL		263630.698	801716.647	CA1	PUMP	31	44
<input type="checkbox"/>	QH647	ACME1	ACME1	FLOW	DA	MEAN	PREF	WMD	01-AUG-1980	30-JUN-2002	0	PAL		263630.698	801716.647	CA1	PUMP	31	44
<input type="checkbox"/>	J0089	ACME2	ACME2	FLOW	DA	MEAN	CR10	WMD	08-SEP-1999	31-OCT-2002	0	PAL		263536.781	801616.546	CA1	PUMP	32	44
<input type="checkbox"/>	QH648	ACME2	ACME2	FLOW	DA	MEAN	PREF	WMD	01-AUG-1980	30-JUN-2002	0	PAL		263536.781	801616.546	CA1	PUMP	32	44
<input type="checkbox"/>	15645	C-10	C-10	FLOW	DA	MEAN	PREF	WMD	01-MAR-1972	30-JUN-2002	0	PAL		264754.219	804145.201	E.BEACH		26	42
<input type="checkbox"/>	15646	C-12	C-12	FLOW	DA	MEAN	PREF	WMD	01-MAR-1972	30-JUN-2002	0	PAL		264456.225	804104.201	E.BEACH		12	43
<input type="checkbox"/>	15647	C-12A	C-12A	FLOW	DA	MEAN	PREF	WMD	01-MAR-1972	30-JUN-2002	0	PAL		264644.221	804136.201	E.BEACH		36	42
<input type="checkbox"/>	15648	C-4A	C-4A	FLOW	DA	MEAN	PREF	WMD	01-MAR-1972	30-JUN-2002	0	PAL		264057.237	804501.206	SOUTH		4	44
<input type="checkbox"/>	J0858	C18W W	C18W W	FLOW	DA	MEAN	NA	WMD	31-JUL-1992	27-OCT-2002	0	PAL		265219.209	801442.158	C18	WEIR	28	41
<input type="checkbox"/>	E1280	C51SR7 Q	C51SR7 Q	FLOW	DA	MEAN	CR10	WMD	24-JUL-1997	05-JUL-2001	0	PAL		264047.232	801213.162	CS1		36	43
<input type="checkbox"/>	IW952	C51SR7 Q	C51SR7 Q	FLOW	BK	INST	CR10	WMD			0	PAL		264047.232	801213.162	CS1		36	43
<input type="checkbox"/>	LX274	E8EACH	E8EACH	FLOW	DA	MEAN	PREF	WMD	01-JUL-2001	30-JUN-2002	0	PAL		264937.529	803501.559	SSA			
<input type="checkbox"/>	NO199	E8PS3 P	E8PS3 P	FLOW	DA	MEAN	CR10	WMD	05-OCT-2001	01-OCT-2002	0	PAL	0	264014	800933	SSA	PUMP	13	42
<input type="checkbox"/>	LX273	ESHORE2	ESHORE2	FLOW	DA	MEAN	PREF	WMD	20-DEC-2001	30-JUN-2002	0	PAL		264021.295	803814.806	S2		3	44
<input type="checkbox"/>	NO194	ESP52 P	ESP	FLOW	DA	MEAN	CR10	WMD	20-DEC-2001	01-OCT-2002	0	PAL	0	264938.1	803501.5	S2	PUMP	3	44
<input type="checkbox"/>	Q3656	FM715 P	FM715	FLOW	DA	MEAN	NA	WMD			0	PAL	0	264701.22	803959.199	E.BEACH		36	42
<input type="checkbox"/>	Q3759	G124 C	G124	FLOW	DA	MEAN	NA	WMD			0	PAL	0	264055.233	801529.161	CS1W	CULV	33	43
<input type="checkbox"/>	15154	G200A P	G200A	FLOW	DA	MEAN	001	WMD	20-AUG-1990	31-OCT-2002	0	PAL	0	262604.272	804839.215	S8	PUMP	2	47
<input type="checkbox"/>	13111	G200A P	G200A	FLOW	DA	MEAN	NA	WMD	20-AUG-1990	12-SEP-1994	0	PAL	0	262604.272	804839.215	S8	PUMP	2	47
<input type="checkbox"/>	15736	G200A P	G200A	FLOW	DA	MEAN	PREF	WMD	28-OCT-1991	30-JUN-2002	0	PAL	0	262604.272	804839.215	S8	PUMP	2	47
<input type="checkbox"/>	13112	G200B P	G200B	FLOW	DA	MEAN	NA	WMD	20-AUG-1990	05-OCT-1994	0	PAL	0	262606.272	804835.215	S8	PUMP	35	46
<input type="checkbox"/>	15155	G200B P	G200B	FLOW	DA	MEAN	NA	WMD	20-AUG-1990	22-AUG-2002	0	PAL	0	262606.272	804835.215	S8	PUMP	35	46
<input type="checkbox"/>	DJ188	G200B P	G200B	FLOW	DA	MEAN	NA	WMD	01-JAN-1992	30-JUN-1996	0	PAL		262606.272	804835.215	S8	PUMP	35	46
<input type="checkbox"/>	13113	G201 P	G201	FLOW	DA	MEAN	NA	WMD	14-MAR-1991	08-NOV-1994	0	PAL	0	262016.283	803810.2	S8	PUMP	22	47
<input type="checkbox"/>	15156	G201 P	G201	FLOW	DA	MEAN	NA	WMD	14-MAR-1991	01-AUG-2002	0	PAL	0	262016.283	803810.2	S8	PUMP	22	47
<input type="checkbox"/>	15739	G201 P	G201	FLOW	DA	MEAN	NA	WMD	01-MAR-1992	30-JUN-1996	0	PAL	0	262016.283	803810.2	S8	PUMP	22	47
<input type="checkbox"/>	15051	G204 C	G204	FLOW	DA	MEAN	NA	WMD	07-JUN-1991	17-JUL-2001	0	PAL	0	261957.285	804552.212	CA3A	CULV	8	47
<input type="checkbox"/>	15742	G204 C	G204	FLOW	DA	MEAN	NA	WMD	01-MAR-1992	30-SEP-1993	0	PAL	0	261957.285	804552.212	CA3A	CULV	8	47
<input type="checkbox"/>	15054	G205 C	G205	FLOW	DA	MEAN	SP01	WMD	07-JUN-1991	17-JUL-2001	0	PAL	0	262000.284	804259.207	CA3A	CULV	26	47
<input type="checkbox"/>	15743	G205 C	G205	FLOW	DA	MEAN	NA	WMD	01-MAR-1992	30-SEP-1993	0	PAL	0	262000.284	804259.207	CA3A	CULV	26	47
<input type="checkbox"/>	15744	G206 C	G206	FLOW	DA	MEAN	NA	WMD	01-MAR-1992	30-SEP-1993	0	PAL	0	262002.284	803908.202	CA3A	CULV	24	47
<input type="checkbox"/>	15057	G206 C	G206	FLOW	DA	MEAN	NA	WMD	07-JUN-1991	17-JUL-2001	0	PAL	0	262002.284	803908.202	CA3A	CULV	24	47
<input type="checkbox"/>	13115	G210 P	G210	FLOW	DA	MEAN	NA	WMD	31-MAY-1985	27-SEP-1992	0	PAL	0	263936.234	802337.175	CA1	PUMP	0	44
<input type="checkbox"/>	15846	G250S P	STA1W	FLOW	DA	MEAN	NA	WMD	31-DEC-1993	11-MAY-1999	0	PAL		263927.235	802348.175	CA1	PUMP	27	44

Each of the underlined fields is hyperlinked to additional information that explains its meaning. You can also click on the column heading of any column in order to sort the list by that particular column. The "Station" column is used by default as indicated by the arrow above the column heading.

For instance, clicking on the word "FLOW" in the data type column leads to the following screen that tells us more about what "FLOW" data is:



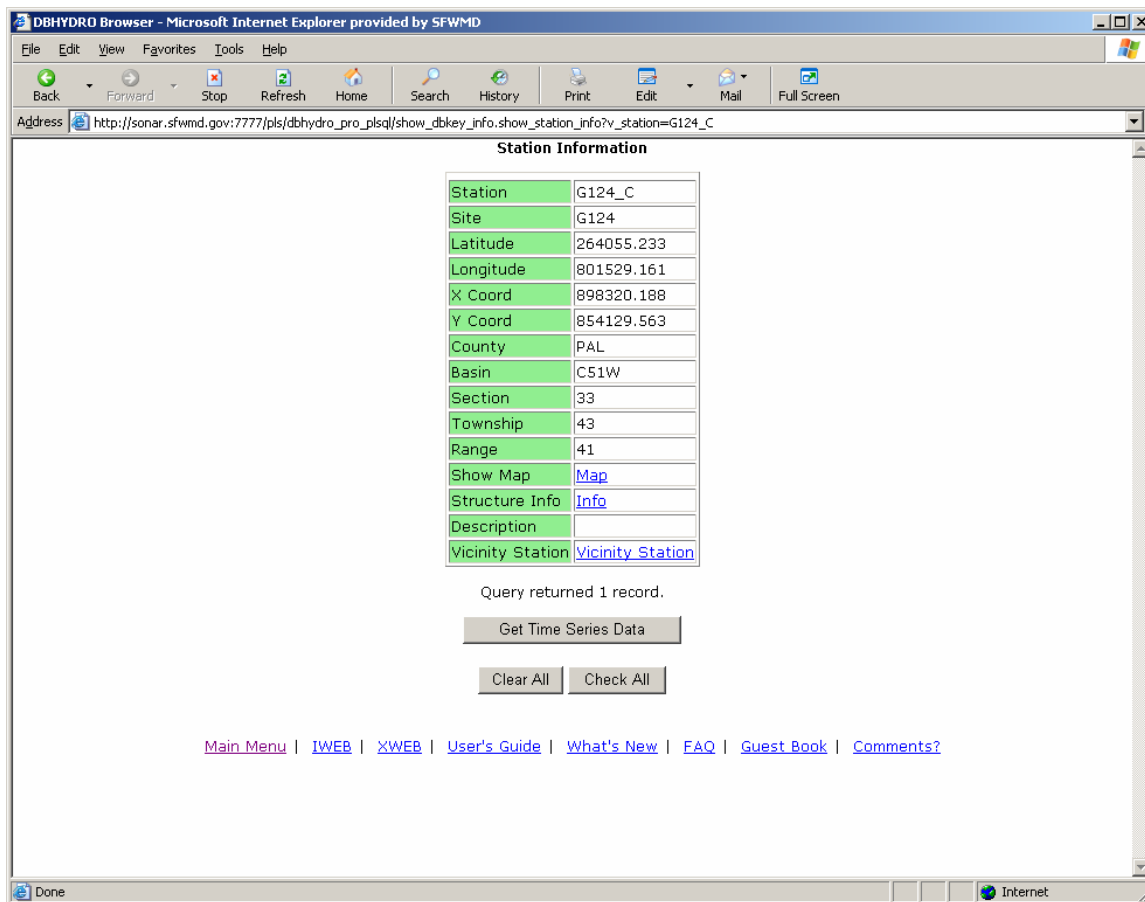
The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The browser's address bar and menu bar are visible. The main content area displays a table titled "Data Type Information". The table has six columns: "Data Type", "Label", "Units", "Class", "Discipline Method", and "Description". A single row of data is shown, with "FLOW" in the "Data Type" column, "FLOW" in the "Label" column, "CFS" in the "Units" column, "FLOW" in the "Class" column, "SW" in the "Discipline Method" column, and "FLOW" in the "Description" column. Below the table, the text "Query returned 1 records." is displayed.

Data Type	Label	Units	Class	Discipline Method	Description
FLOW	FLOW	CFS	FLOW	SW	FLOW

Query returned 1 records.

This behavior is similar for all the other highlighted fields.

One of the more interesting features is the station field link. Selecting a station leads to a screen displaying the station information. Selecting station "G124_C" leads to this screen:



From here we can display a map, go get data, or display structure information about this flow station.

Selecting "Map" leads to the following map display:



Here we are taking advantage of free (and completely legal!) commercial map server technology to learn more about the area near the station of interest. The map can be drawn at different scales (zoom in/out) and printed. General directions to the station can also be generated. The District does not endorse the use of any particular commercial map server engine or its advertisers.

Alternatively, by selecting the “Vicinity Station” link, we can get a list of nearby stations. Such a list may lead us to other data that we, because of previous query criteria, did not realize was present. The column “Distance in miles” tells us how close other stations are to “G124_C”.

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

Address http://sonar.sfwmd.gov:7777/pls/dbhydro_pro_pkg/show_station_info?station=G124_C&lat=264055.233&lon=801529.161&distance=5

Get Data	Station	Site	Latitude	Longitude	X Coord	Y Coord	Distance in miles	County	Basin	Section	Township	Range	Show Map	Structure Info	Description	Vicinity Station
<input type="checkbox"/>	G124_C	G124	264055.233	801529.161	998320.188	854129.563	0.	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	G124_H	G124	264055.233	801529.161	998320.188	854129.563	0.	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	G124_T	G124	264055.233	801529.161	998320.188	854129.563	0.	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	W-17613		264058.24	801509.17	900235.22	854600.593	.35	PAL	CA1	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1583	PB-1583	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1584	PB-1584	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1585	PB-1585	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1590E	PB-1590	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1590C	PB-1590	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1590B	PB-1590	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1590F	PB-1590	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1590G	PB-1590	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1590D	PB-1590	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1590	PB-1590	264058.233	801509.161	900236.008	854600.2	.35	PAL	C51W	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	ACME3	ACME3	264050.234	801504.161	900694.295	853795.094	.44	PAL	C51	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	VOW3		264050.03	801501.648	900922.338	853775.859	.48	PAL	C51	33	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	WPB-15.0		264052.234	801501.161	900965.242	853998.636	.48	PAL	C51	34	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	ACME34WS	ACME3	264052.238	801603.661	895295.86	853966.025	.59	PAL	C51				Map	Info		Vicinity Station
<input type="checkbox"/>	PB-300_G	PB-300	264107.233	801618.163	893971.881	855472.702	.87	PAL	C51W	32	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1567	USGS_10	264101	801630	892901.669	854837.153	1.05	PAL	CA1	32	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1568	USGS_10	264101	801630	892901.669	854837.153	1.05	PAL	CA1	32	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1570	USGS_10	264101	801630	892901.669	854837.153	1.05	PAL	CA1	32	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	LOXAHATC_R	LOXAHATC	264115.232	801626.163	893241.627	856276.327	1.05	PAL	C51W	32	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	LOXAHATC_E	LOXAHATC	264115.232	801626.163	893241.627	856276.327	1.05	PAL	C51W	32	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1590A_G		264209.48	801512.41	743774.46	861707.16	1.45	PAL	L OKEE	28	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	PB-1583_G		264209.41	801510.68	743865.15	861707.69	1.46	PAL	L OKEE	28	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	RPB-AMIL		264058.233	801404.159	906132.132	854635.158	1.46	PAL	C51	34	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	VOW35		264036.855	801403.977	906161.588	852476.574	1.5	PAL	C51	3	44	41	Map	Info		Vicinity Station
<input type="checkbox"/>	VOW4		264053.669	801702.125	889991.985	854080.541	1.59	PAL	C51	31	43	41	Map	Info		Vicinity Station
<input type="checkbox"/>	ACME4	ACME4	264054.233	801703.164	889897.422	854136.96	1.61	PAL	C51	31	43	41	Map	Info		Vicinity Station

Done Internet

Click on the "Back" button twice in your browser to return to the Time Series Listing page where you can now select one or more data sets for display. Note that data sets for which there is not yet any data are not selectable.

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

File Edit View Favorites Tools Help Links »

Time Series Listing

Get Data	Dbkey	Station	Group	Data Type	Freq	Stat	Recorder	Agency	Start Date	End Date	Strata	County	Op Num	Latitude	Longitude
<input type="checkbox"/>	JO088	ACME1	ACME1	FLOW	DA	MEAN	CR10	WMD	09-SEP-1999	31-OCT-2002	0	PAL		263630.698	801716.647
<input type="checkbox"/>	QH647	ACME1	ACME1	FLOW	DA	MEAN	PREF	WMD	01-AUG-1980	30-JUN-2002	0	PAL		263630.698	801716.647
<input type="checkbox"/>	JO089	ACME2	ACME2	FLOW	DA	MEAN	CR10	WMD	08-SEP-1999	31-OCT-2002	0	PAL		263536.781	801616.546
<input type="checkbox"/>	QH648	ACME2	ACME2	FLOW	DA	MEAN	PREF	WMD	01-AUG-1980	30-JUN-2002	0	PAL		263536.781	801616.546
<input type="checkbox"/>	15645	C-10	C-10	FLOW	DA	MEAN	PREF	WMD	01-MAR-1972	30-JUN-2002	0	PAL		264754.219	804145.201
<input type="checkbox"/>	15646	C-12	C-12	FLOW	DA	MEAN	PREF	WMD	01-MAR-1972	30-JUN-2002	0	PAL		264456.225	804104.201
<input type="checkbox"/>	15647	C-12A	C-12A	FLOW	DA	MEAN	PREF	WMD	01-MAR-1972	30-JUN-2002	0	PAL		264644.221	804136.201
<input type="checkbox"/>	15648	C-4A	C-4A	FLOW	DA	MEAN	PREF	WMD	01-MAR-1972	30-JUN-2002	0	PAL		264057.237	804501.206
<input type="checkbox"/>	JJ858	C18W W	C18W W	FLOW	DA	MEAN	NA	WMD	31-JUL-1992	27-OCT-2002	0	PAL		265219.209	801442.158
<input type="checkbox"/>	FI280	C51SR7 O	C51SR7 O	FLOW	DA	MEAN	CR10	WMD	24-JUL-1997	05-JUL-2001	0	PAL		264047.232	801213.162
<input type="checkbox"/>	IW952	C51SR7 O	C51SR7 O	FLOW	BK	INST	CR10	WMD			0	PAL		264047.232	801213.162
<input type="checkbox"/>	LX274	EBEACH	EBEACH	FLOW	DA	MEAN	PREF	WMD	01-JUL-2001	30-JUN-2002	0	PAL		264937.529	803501.559
<input type="checkbox"/>	NO199	EBPS3 P	EBPS3 P	FLOW	DA	MEAN	CR10	WMD	05-OCT-2001	01-OCT-2002	0	PAL	0	264014	800933
<input type="checkbox"/>	LX273	ESHORE2	ESHORE2	FLOW	DA	MEAN	PREF	WMD	20-DEC-2001	30-JUN-2002	0	PAL		264021.295	803814.806
<input type="checkbox"/>	NO194	ESPS2 P	ESP	FLOW	DA	MEAN	CR10	WMD	20-DEC-2001	01-OCT-2002	0	PAL	0	264938.1	803501.5
<input type="checkbox"/>	Q3656	FM715 P	FM715	FLOW	DA	MEAN	NA	WMD			0	PAL	0	264701.22	803959.199
<input type="checkbox"/>	Q3759	G124 C	G124	FLOW	DA	MEAN	NA	WMD			0	PAL	0	264055.233	801529.161
<input type="checkbox"/>	15154	G200A P	G200A	FLOW	DA	MEAN	001	WMD	20-AUG-1990	31-OCT-2002	0	PAL	0	262604.272	804839.215
<input type="checkbox"/>	13111	G200A P	G200A	FLOW	DA	MEAN	NA	WMD	20-AUG-1990	12-SEP-1994	0	PAL	0	262604.272	804839.215
<input checked="" type="checkbox"/>	15736	G200A P	G200A	FLOW	DA	MEAN	PREF	WMD	28-OCT-1991	30-JUN-2002	0	PAL	0	262604.272	804839.215
<input type="checkbox"/>	13112	G200B P	G200B	FLOW	DA	MEAN	NA	WMD	20-AUG-1990	05-OCT-1994	0	PAL	0	262606.272	804835.215
<input type="checkbox"/>	15155	G200B P	G200B	FLOW	DA	MEAN	NA	WMD	20-AUG-1990	22-AUG-2002	0	PAL	0	262606.272	804835.215
<input type="checkbox"/>	DJ188	G200B P	G200B	FLOW	DA	MEAN	NA	WMD	01-JAN-1992	30-JUN-1996	0	PAL		262606.272	804835.215
<input type="checkbox"/>	13113	G201 P	G201	FLOW	DA	MEAN	NA	WMD	14-MAR-1991	08-NOV-1994	0	PAL	0	262016.283	803810.2

In this example we have indicated we want the data for "G200A_P". We have selected the data set with recorder equal to "PREF" because such data sets undergo an additional level of quality assurance by the engineering staff. Whenever "PREF" data is available for your date range of interest it should be used. Up to 75 rows of metadata will be displayed on each screen. If data from different screens is desired it will have to be fetched separately from one another. Alternatively, one could refine the query so fewer metadata rows are returned such that they all fit on one screen.

Scroll down and click on the "Get Data" button that is displayed at the bottom of the screen.

<input type="checkbox"/>	IX447	G253G	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263739.239	802533.178	SSA		23	44	39
<input type="checkbox"/>	16211	G253H	C	STA1W	FLOW	DA	MEAN	CR10	WMD	28-MAR-1995	17-APR-2002	0	PAL	0	263739.239	802533.178	SSA		23	44	39
<input type="checkbox"/>	IX448	G253H	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263739.239	802533.178	SSA		23	44	39
<input type="checkbox"/>	16249	G253I	C	STA1W	FLOW	DA	MEAN	CR10	WMD	13-JAN-1995	17-APR-2002	0	PAL	0	263739.239	802526.178	SSA		23	44	39
<input type="checkbox"/>	IX451	G253I	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263739.239	802526.178	SSA		23	44	39
<input type="checkbox"/>	16250	G253I	C	STA1W	FLOW	DA	MEAN	CR10	WMD	13-JAN-1995	17-APR-2002	0	PAL	0	263739.239	802521.178	SSA		23	44	39
<input type="checkbox"/>	IX452	G253I	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263739.239	802521.178	SSA		23	44	39
<input type="checkbox"/>	16212	G254A	C	STA1W	FLOW	DA	MEAN	CR10	WMD	24-JAN-1995	23-APR-2002	0	PAL	0	263805.238	802630.18	SSA		15	44	39
<input type="checkbox"/>	N8575	G254A	C	STA1W	FLOW	DA	MEAN	CR10	WMD	22-AUG-2001	23-APR-2002	0	PAL	0	263805.238	802630.18	SSA		15	44	39
<input type="checkbox"/>	IX454	G254A	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263805.238	802630.18	SSA		15	44	39
<input type="checkbox"/>	16213	G254B	C	STA1W	FLOW	DA	MEAN	CR10	WMD	05-APR-1995	23-APR-2002	0	PAL	0	263805.238	802630.18	SSA		15	44	39
<input type="checkbox"/>	IX463	G254B	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263805.238	802630.18	SSA		15	44	39
<input type="checkbox"/>	N8576	G254B	C	STA1W	FLOW	DA	MEAN	CR10	WMD	09-OCT-2001	23-APR-2002	0	PAL	0	263805.238	802630.18	SSA		15	44	39
<input type="checkbox"/>	16251	G254C	C	STA1W	FLOW	DA	MEAN	CR10	WMD	10-JAN-1995	23-APR-2002	0	PAL	0	263805.238	802615.179	SSA		15	44	39
<input type="checkbox"/>	IX464	G254C	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263805.238	802615.179	SSA		15	44	39
<input type="checkbox"/>	N8577	G254C	C	STA1W	FLOW	DA	MEAN	CR10	WMD	09-OCT-2001	23-APR-2002	0	PAL	0	263805.238	802615.179	SSA		15	44	39
<input type="checkbox"/>	16214	G254D	C	STA1W	FLOW	DA	MEAN	CR10	WMD	12-JAN-1995	23-APR-2002	0	PAL	0	263805.238	802600.179	SSA		15	44	39
<input type="checkbox"/>	IX475	G254D	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263805.238	802600.179	SSA		15	44	39
<input type="checkbox"/>	N8578	G254D	C	STA1W	FLOW	DA	MEAN	CR10	WMD	24-AUG-2001	23-APR-2002	0	PAL	0	263805.238	802600.179	SSA		15	44	39
<input type="checkbox"/>	16215	G254E	C	STA1W	FLOW	DA	MEAN	CR10	WMD	12-JAN-1995	23-APR-2002	0	PAL	0	263805.238	802600.179	SSA		15	44	39
<input type="checkbox"/>	IX476	G254E	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263805.238	802600.179	SSA		15	44	39
<input type="checkbox"/>	16731	G255A	C	STA1W	FLOW	DA	MEAN	CR10	WMD	06-JAN-1995	17-APR-2002	0	PAL	0	263929.234	802445.177	SSA	CULV	11	44	39
<input type="checkbox"/>	IX486	G255A	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263929.234	802445.177	SSA	CULV	11	44	39
<input type="checkbox"/>	16732	G255B	C	STA1W	FLOW	DA	MEAN	CR10	WMD	06-JAN-1995	17-APR-2002	0	PAL	0	263929.234	802445.177	SSA	CULV	11	44	39
<input type="checkbox"/>	IX487	G255B	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263929.234	802445.177	SSA	CULV	11	44	39
<input type="checkbox"/>	16733	G255C	C	STA1W	FLOW	DA	MEAN	CR10	WMD	06-JAN-1995	02-APR-2002	0	PAL	0	263929.234	802445.177	SSA		11	44	39
<input type="checkbox"/>	IX488	G255C	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263929.234	802445.177	SSA		11	44	39
<input type="checkbox"/>	16734	G255D	C	STA1W	FLOW	DA	MEAN	CR10	WMD	06-JAN-1995	17-APR-2002	0	PAL	0	263929.234	802445.177	SSA		11	44	39
<input type="checkbox"/>	IX489	G255D	C	STA1W	FLOW	BK	INST	CR10	WMD			0	PAL	0	263929.234	802445.177	SSA		11	44	39
<input type="checkbox"/>	16735	G255E	C	STA1W	FLOW	DA	MEAN	CR10	WMD	06-JAN-1995	17-APR-2002	0	PAL	0	263929.234	802445.177	SSA		11	44	39

Get Data Clear All Check All

Bottom

Query returned 362 records.

Save Parameter File

DBHYDRO Home | iweb | xweb | What's New | FAQ | Comments?

Internet

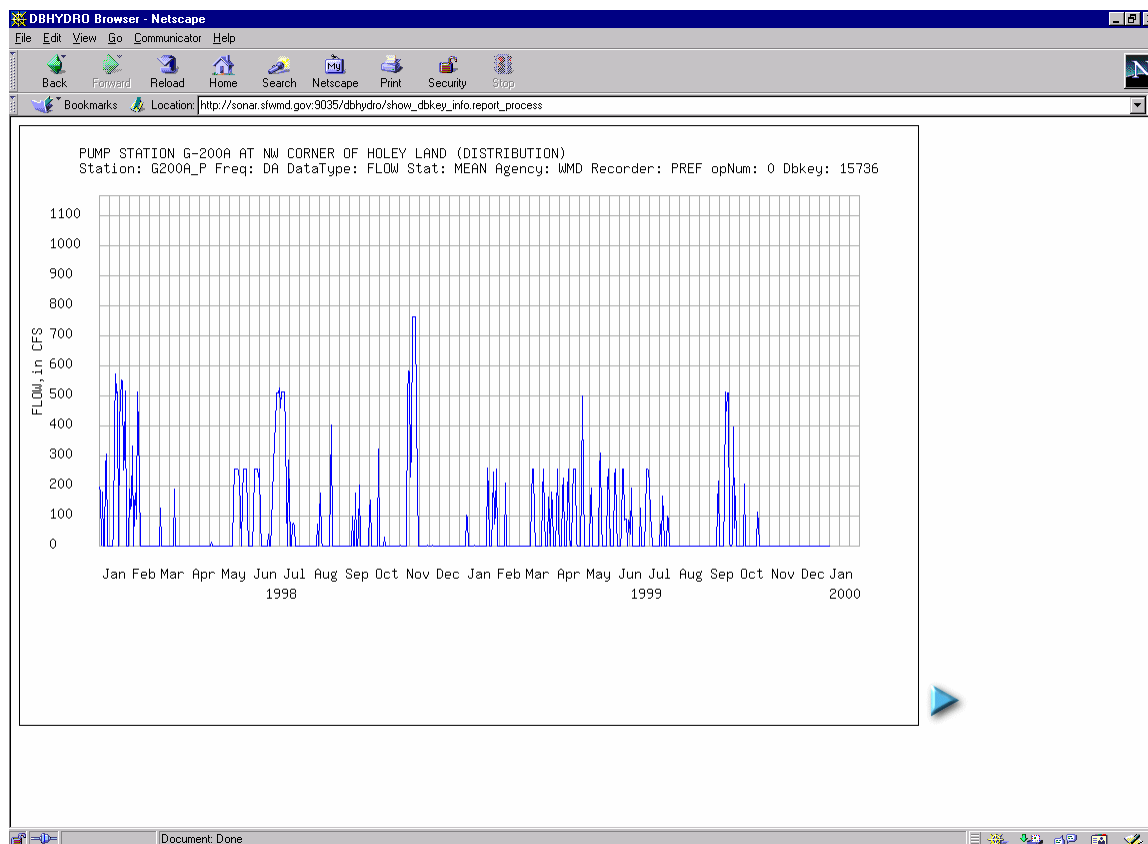
Take notice of the Clear All and Check All buttons that can be used to expedite the time series selection process. Clear All has the effect of removing check marks from all checked time series. Check All has the effect of selecting, or checking all the time series data records. Notice that data sets that have no data are not selectable. A data set may have no data because it is registered in preparation of receiving data but has not received any data yet. Again, a parameter file may be saved at this point in time also.

Once the Get Data button is pressed the date range selection and format selection screen is now displayed:

Here we may make our selections to get the period of record for the data set and plot it. As indicated above, the appropriate "radio buttons" have been selected. There are eleven different output formats and four different output destinations.

Plotting

Clicking on the "Submit" button results in the following graph:



This graph is generated directly from the database “on-the-fly”. The graph may be printed to any available printer. Make sure to print the graph in landscape mode.

Subsequent years of data may be displayed by clicking on the right arrow button.

Clicking on the "Back" button on your browser and selecting the tabular data option allows us to choose several formats. The example below indicates the user is ready to retrieve data in a "one year per page" tabular report.

DBHYDRO Query Date Selection

Time Series List

Get Data	Dbkey	Station	Group	Data Type	Freq	Stat	Strata	Recorder	Agency	Start Date	End Date	County	Op Num	Latitude	Longitude	Basin	Struct
<input checked="" type="checkbox"/>	15736	G200A_P	G200A	FLOW	DA	MEAN	0	PREF	WMD	19911028	20030630	PAL	0	262603	804840	S8	PUMP

Clear All Check All

Date Range User Specified
 Start Date 19911028 End Date 20030630 (YYYYMMDD)

Report Name Month - Year Matrix Format (Format 1)

Destination
☒ Screen
☐ File: Fixed column width.
☐ File: Comma delimited (.csv).
☐ Adobe (.pdf) Format.

Run Mode
☒ Online
☐ Batch [When to use it](#)

Submit Reset

Save Parameter File

[Main Menu](#) | [IWEB](#) | [XWEB](#) | [User's Guide](#) | [What's New](#) | [FAQ](#) | [Guest Book](#) | [Comments?](#)

Format 1 fits one year of data to a single page in matrix format in which the columns are months of the year and the rows are days of the month. Single Time Series format is a single column output in which each value appears on its own line. Multiple Time Series format is a multi-column output in which the values for multiple time series appear on a single line corresponding to a single date.

This is what you get with one year to a page. Each month is a separate column and each day is a separate row. Each year is a separate section in the output. Monthly summary statistics are at the bottom of each year.

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD													
File Edit View Favorites Tools Help													
Back Forward Stop Refresh Home Search History Print Edit Mail Full Screen													
DBKEY	STATION	AGENCY	COUNTY	TYPE	UNITS	STAT	FO	START	END	LAT	LONG	SECTION	TOWN RANGE
15736	G200A_P	VMD	PAL	FLOW	CFS	MEAN	DA	1991	2003	262603	804840	2	47 35
YEAR: 2000													
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	.00E	.00E	.00	160.50	514.05E	.00	.00	87.05	132.49E	256.33	.00	.00	
2	.00E	.00	.00	.00	420.24	.00	.00	244.93	257.61	256.87	.00	.00	
3	.00E	.00	.00	.00	498.22	.00	.00	.00	220.98	254.57	.00	.00	
4	.00E	.00	.00	.00	417.16	.00	.00	.00	.00	247.04	.00	.00	
5	.00E	.00	.00	93.60	562.66E	.00	34.21	.00	.00E	256.97	.00	.00	
6	.00	.00	.00	258.86	514.99	.36	.00	.00	73.23E	257.01	.00	.00	
7	23.98	.00	.00	140.67	515.97	.00	.00	.00	178.75	255.36	.00	.00	
8	.00	.00	.00	.00	514.91E	.00	.00	.00	230.58	255.89	.00	.00	
9	.00	.00	127.54	.00	492.17	.00	.00	.00	227.12	255.82	.00	.00	
10	.00	238.77	238.10	.00	514.07	.00	.00	.00	226.20	255.77	.00	.00	
11	.00	.00	.00	.00	513.90	.00	.00	.00	258.35E	236.92	.00	.00	
12	.00	.00	.00	200.08	514.60	.00	.00	.00	258.78E	255.63	.00	.00	
13	.00E	.00	.00	111.30	514.81	.00	.00	.00	88.31	256.89	.00	.00	
14	.00	.00	.00	202.64E	515.13	.00	.00	.00	.00	254.08	.00	.00	
15	.00	.00	.00	459.25E	514.85	.00	.00	.00	.00	256.28	.00	.00	
16	.00	.00	158.29	171.40	513.21	.00	.00	.00	.00	256.32	.00	.00	
17	.00	.00	164.84	440.63	603.67E	.00	.00	.00	93.95	256.32	.00	.00	
18	.00	.72	.00	389.61	513.59	.00	.00E	.00	258.40	104.86	.00	.00	
19	.00	.00	.00	.00	513.58	.00	.00	.00	257.47	.00	.00	.00	
20	.00	.00	.00	.00	155.70	.00	.00	.00	224.50	.00	.00	.00	
21	174.79E	.00	.00	.00	.00	.00	.00	.00	256.94	.00	.00	.00	
22	.00	.00	.00	.00	.00	1.26E	.00	.00	256.97E	.00	.00	.00	
23	.00	.00	116.28E	.00	.00	.00	.00	.00	257.71	.00	.00	.00	
24	273.06E	.00	258.06E	.00	.00	.00	140.38E	.00	203.67	.00	.00	.00	
25	342.04	.00	30.91	211.19	.00	94.43	147.85	164.12	257.94	.00	.00	.00	
26	.00	.00	.00	514.95	.00	409.24	51.00	253.50	257.38	.00	.00	.00	
27	.00	.00	.00E	515.33	.00	312.36	67.95E	34.97	255.11E	.00	.00	.00	
28	.00	.00	.00E	475.26	.00	.00	37.44	.00	210.16E	.00	4.83	.00	
29	.00	.00	.00	513.50	.00	.00	.00	.00	256.38	.00	.00	.00	
30	.00	.00	42.90	514.41E	.00	.00	98.24	.00	255.95	.00	.00	.00	
31	.00	.00	258.29	.00	.00	.00	137.75	72.86	.00	.00	.00	.00	
MAX	342.04	238.77	258.29	515.33	603.67E	409.24	147.85	253.50	258.78E	257.01	4.83	.00	
MEAN	26.25	8.26	45.01	178.77	317.34	27.26	23.06	27.66	181.83	142.89	.16	.00	
MIN	.00E	.00E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
SUM	813.86	239.49	1395.21	5363.08	9837.48	817.65	714.82	857.43	5454.93	4429.53	4.83	.00	
DATA TAG LEGEND													
I - QUESTIONABLE < - LESS THAN > - GREATER THAN ? - QUESTIONABLE NOW A - ACCUMULATED E - ESTIMATED L - LINE-AVERAGE M - MISSING N - NOT YET PROCESSED P - SUMMARY COMPUTED FROM PARTIAL RECORD													
R - UNDEFINED S - ORIGINAL HAD MORE THAN 5 SIGNIFICANT DIGITS T - TRACE OF PRECIPITATION V - NO DATA COLLECTED X - INCLUDED IN NEXT AMOUNT MARKED 'A' Y - PROVISIONAL USE FOR REGIONAL SCALE MODELING Z - NOT APPROPRIATE FOR REGIONAL SCALE MODELING													
Done Internet													

This output can be saved explicitly as a .txt file using File → Save As or one may choose Edit → Select All and paste the information into another application.

The file may also be saved in comma separated variable (.csv) format and opened in a program such as Notepad or imported into a spreadsheet program like Microsoft Excel:

[illegible]

Single Time Series format is as follows:

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search History Print Edit Mail Full Screen

Time Series Data

DBKEY STATION AGENCY COUNTY TYPE UNITS STAT FO START END LAT LONG SECTION TOWN RANGE ALTERNATE ID

15736 G200A_P WMD PAL FLOW 15736 MEAN DA 1991 2003 262603 804840 2 47 35

Station	DBKEY	Daily Date	Data Value	Code	Revision Date
G200A_P	15736	28-OCT-1991	81.67		04-MAY-1999
G200A_P	15736	29-OCT-1991	0		10-MAY-1996
G200A_P	15736	30-OCT-1991	0		10-MAY-1996
G200A_P	15736	31-OCT-1991	0		10-MAY-1996
G200A_P	15736	01-NOV-1991	0		10-MAY-1996
G200A_P	15736	02-NOV-1991	0		10-MAY-1996
G200A_P	15736	03-NOV-1991	0		10-MAY-1996
G200A_P	15736	04-NOV-1991	0		10-MAY-1996
G200A_P	15736	05-NOV-1991	154.10		04-MAY-1999
G200A_P	15736	06-NOV-1991	256.91		04-MAY-1999
G200A_P	15736	07-NOV-1991	257.27		04-MAY-1999
G200A_P	15736	08-NOV-1991	238.35		04-MAY-1999
G200A_P	15736	09-NOV-1991	226.84		04-MAY-1999
G200A_P	15736	10-NOV-1991	0		10-MAY-1996
G200A_P	15736	11-NOV-1991	0		10-MAY-1996
G200A_P	15736	12-NOV-1991	0		10-MAY-1996
G200A_P	15736	13-NOV-1991	0		10-MAY-1996
G200A_P	15736	14-NOV-1991	0		10-MAY-1996
G200A_P	15736	15-NOV-1991	0		10-MAY-1996
G200A_P	15736	16-NOV-1991	0		10-MAY-1996
G200A_P	15736	17-NOV-1991	0		10-MAY-1996
G200A_P	15736	18-NOV-1991	0		10-MAY-1996
G200A_P	15736	19-NOV-1991	0		10-MAY-1996
G200A_P	15736	20-NOV-1991	0		10-MAY-1996
G200A_P	15736	21-NOV-1991	0		10-MAY-1996
G200A_P	15736	22-NOV-1991	0		10-MAY-1996
G200A_P	15736	23-NOV-1991	0		10-MAY-1996
G200A_P	15736	24-NOV-1991	220.73		04-MAY-1999
G200A_P	15736	25-NOV-1991	315.00		04-MAY-1999
G200A_P	15736	26-NOV-1991	208.84		04-MAY-1999
G200A_P	15736	27-NOV-1991	205.73		04-MAY-1999
G200A_P	15736	28-NOV-1991	444.85		04-MAY-1999
G200A_P	15736	29-NOV-1991	340.20		04-MAY-1999
G200A_P	15736	30-NOV-1991	513.31		04-MAY-1999
G200A_P	15736	01-DEC-1991	504.55		04-MAY-1999
G200A_P	15736	02-DEC-1991	513.37		04-MAY-1999
G200A_P	15736	03-DEC-1991	513.40		04-MAY-1999
G200A_P	15736	04-DEC-1991	513.79		04-MAY-1999
G200A_P	15736	05-DEC-1991	512.06		04-MAY-1999
G200A_P	15736	06-DEC-1991	191.50		04-MAY-1999
G200A_P	15736	07-DEC-1991	512.78		04-MAY-1999
G200A_P	15736	08-DEC-1991	365.68		04-MAY-1999
G200A_P	15736	09-DEC-1991	226.43		04-MAY-1999
G200A_P	15736	10-DEC-1991	308.03		04-MAY-1999
G200A_P	15736	11-DEC-1991	200.93		04-MAY-1999
G200A_P	15736	12-DEC-1991	0		10-MAY-1996
G200A_P	15736	13-DEC-1991	0		10-MAY-1996
G200A_P	15736	14-DEC-1991	0		10-MAY-1996

Done

Internet

Format 7 (not shown) provides for multiple simultaneous time series values to be displayed on the same row (date/time stamp).
 Format 8 (not shown) provides data in Standard Hydrologic Exchange (SHEF) .E format.

You can also run some special statistical summary reports:

DBHYDRO Query Date Selection

Time Series List

Get Data	Dbkey	Station	Group	Data Type	Freq	Stat	Strata	Recorder	Agency	Start Date	End Date	County	Op Num	Latitude	Longitude	Basin	Struct
<input checked="" type="checkbox"/>	15736	G200A_P	G200A	FLOW	DA	MEAN	0	PREF	WMD	19911028	20030630	PAL	0	262603	804840	S8	PUMP

Clear All Check All

Date Range User Specified
 Start Date 19911028 End Date 20030630 (YYYYMMDD)

Report Name Composite Monthly Summary

Destination
☒ Screen
☐ File: Fixed column width.
☐ File: Comma delimited (.csv).
☐ Adobe (.pdf) Format.

Run Mode
☒ Online
☐ Batch [When to use it](#)

Submit Reset

Save Parameter File

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A composite monthly summary for the entire period of record for the "PREF"ered flow data at G200A_P is about to be performed. PREF data is data that has undergone a second level of QA/QC by engineers in Environmental Monitoring and Assessment Division. PREF data, whenever available, should be used to the exclusion of all other data.

This is what you get:

DBKEY STATION. AGENCY COUNTY TYPE. UNITS. STAT FQ START END. LAT. LONG. SECTION TOWN RANGE ALTERNATE ID.
15736 G200A_P VMD PAL FLOW CFS MEAN Da 1991 2003 262603 804640 2 47 35

Period of Record Statistical Summary by Month For DBKEY 15736
For Period 19911028 to 20030630

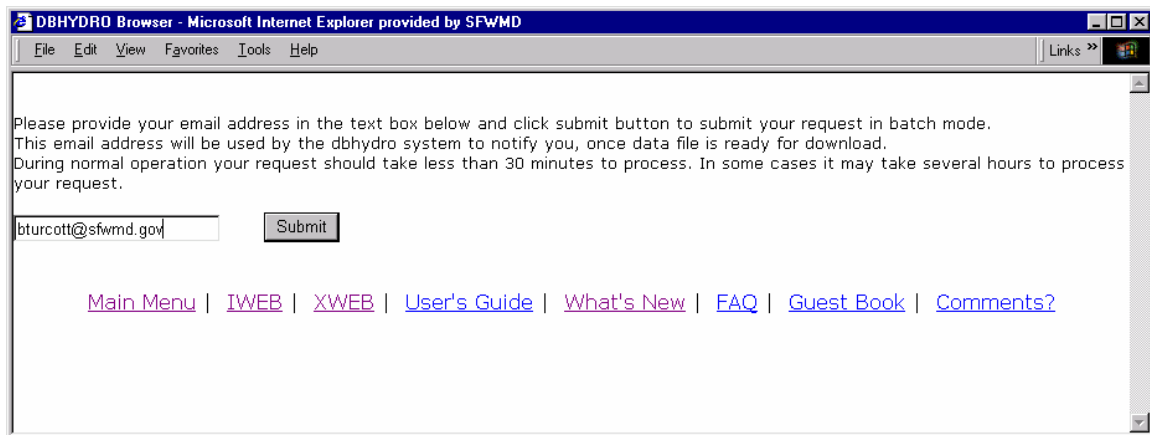
DBKEY	Station	Data Type	Month	Sample Size	Minimum	Mean	Maximum	Code	Std. Dev.
15736	G200A_P	FLOW	01	372	0.000	121.439	767.310		215.09
15736	G200A_P	FLOW	02	339	0.000	43.988	514.740		108.18
15736	G200A_P	FLOW	03	372	0.000	32.536	513.930		92.33
15736	G200A_P	FLOW	04	360	0.000	86.232	766.060		161.91
15736	G200A_P	FLOW	05	372	0.000	92.242	766.440		169.49
15736	G200A_P	FLOW	06	360	0.000	85.127	772.670	E	166.02
15736	G200A_P	FLOW	07	341	0.000	48.793	712.710		110.95
15736	G200A_P	FLOW	08	341	0.000	81.527	765.600		171.86
15736	G200A_P	FLOW	09	330	0.000	116.217	515.140		188.34
15736	G200A_P	FLOW	10	345	0.000	84.162	511.770		166.36
15736	G200A_P	FLOW	11	360	0.000	139.416	765.500		227.48
15736	G200A_P	FLOW	12	372	0.000	75.045	705.210		162.88

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This can be very handy when trying to detect seasonal trends in the data.
Other special summary reports are available too.
Try them out.

Batch Mode

Choosing Batch Mode as the Run Mode allows you to retrieve large data sets in an “off-line manner. That is you do not have to wait at the computer “twiddling your thumbs” waiting for the data. The data request is submitted. You will then receive an email when the data request is done. The email has a hyperlink in it that will allow you to download the file via FTP.



DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

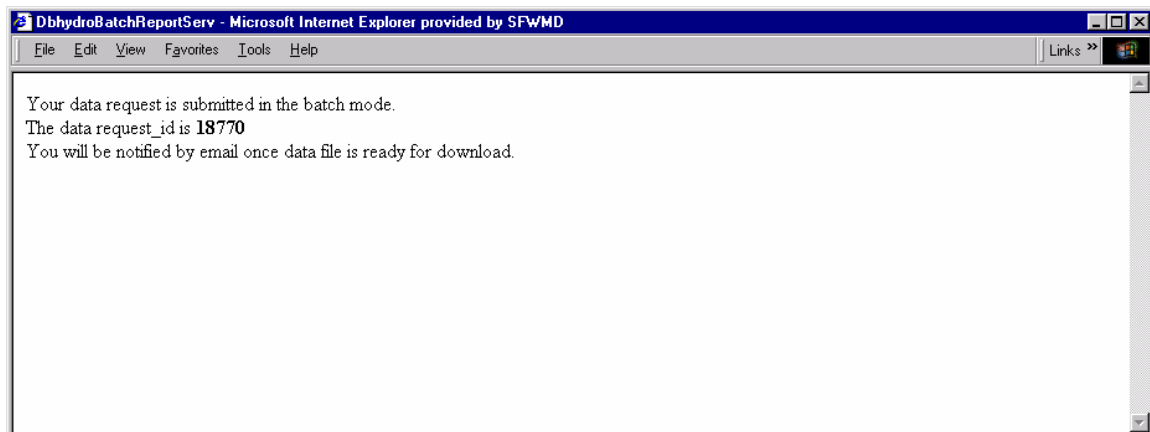
File Edit View Favorites Tools Help Links >>

Please provide your email address in the text box below and click submit button to submit your request in batch mode. This email address will be used by the dbhydro system to notify you, once data file is ready for download. During normal operation your request should take less than 30 minutes to process. In some cases it may take several hours to process your request.

bturcott@sfwmd.gov Submit

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Enter your email address (carefully) and press submit.

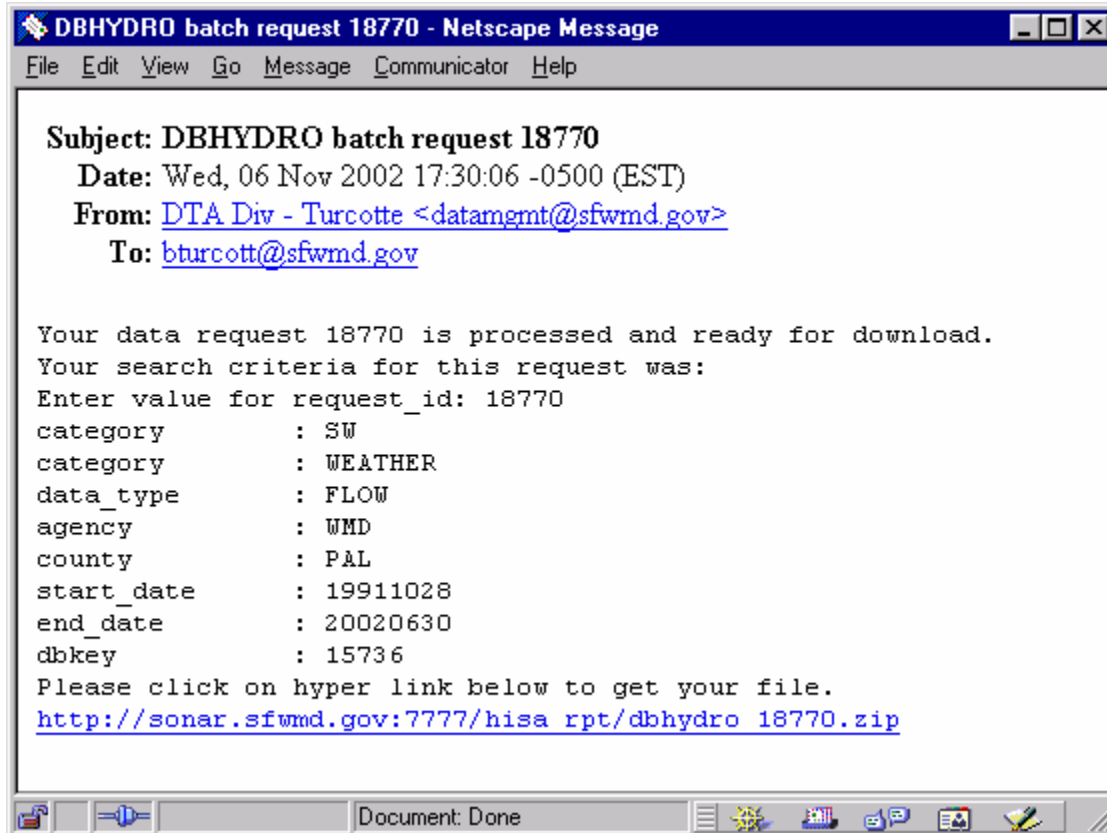


DbhydroBatchReportServ - Microsoft Internet Explorer provided by SFWMD

File Edit View Favorites Tools Help Links >>

Your data request is submitted in the batch mode.
The data request_id is **18770**
You will be notified by email once data file is ready for download.

You will receive an email similar to the following:



Real Time Data

Choose Real Time Data from the main menu. This option is presently only available on the SFWMD intranet.

Real time stages and water control structure operations are available also. For instance, if one has interest in real-time data at the S155 spillway, one check the Site box and select “Submit”

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search History Print Edit Mail Full Screen

Select Search Parameters

DBKEY	<input type="checkbox"/>	Station	<input type="checkbox"/>
Station Description	<input type="checkbox"/>	DCVP Station Id	<input type="checkbox"/>
Site	<input checked="" type="checkbox"/>	Data Type	<input type="checkbox"/>
County	<input type="checkbox"/>	Basin	<input type="checkbox"/>
X-Y Coordinates	<input type="checkbox"/>	Latitude/Longitude	<input type="checkbox"/>

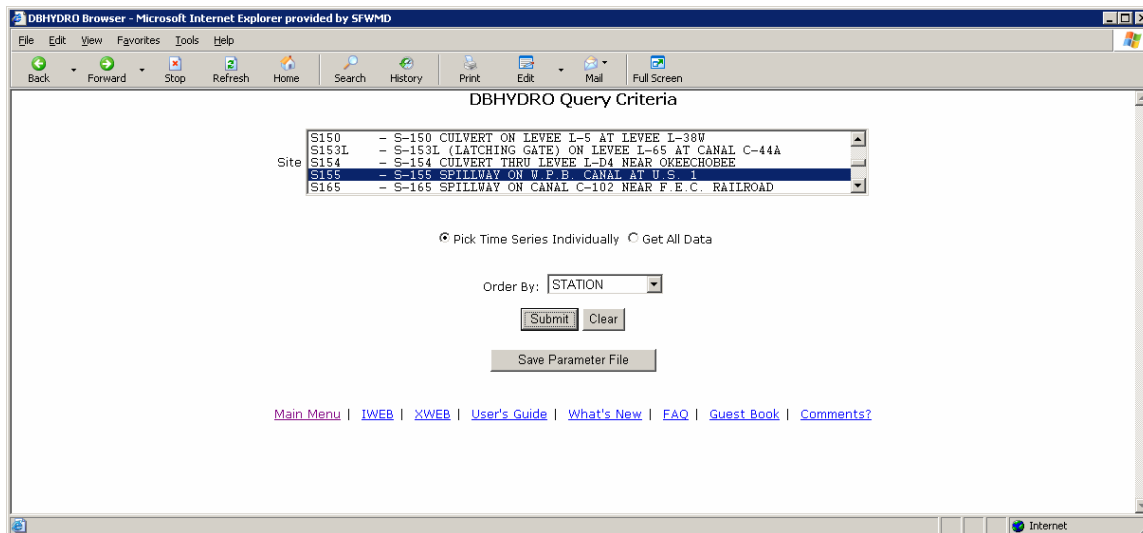
Submit Reset

[Use Existing Parameter File](#)

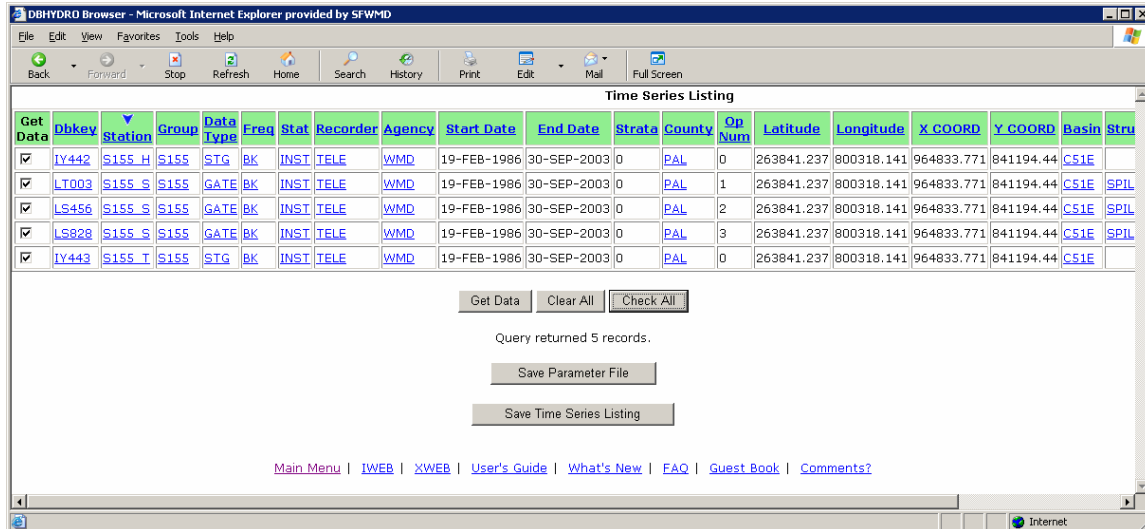
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Error on page. Internet

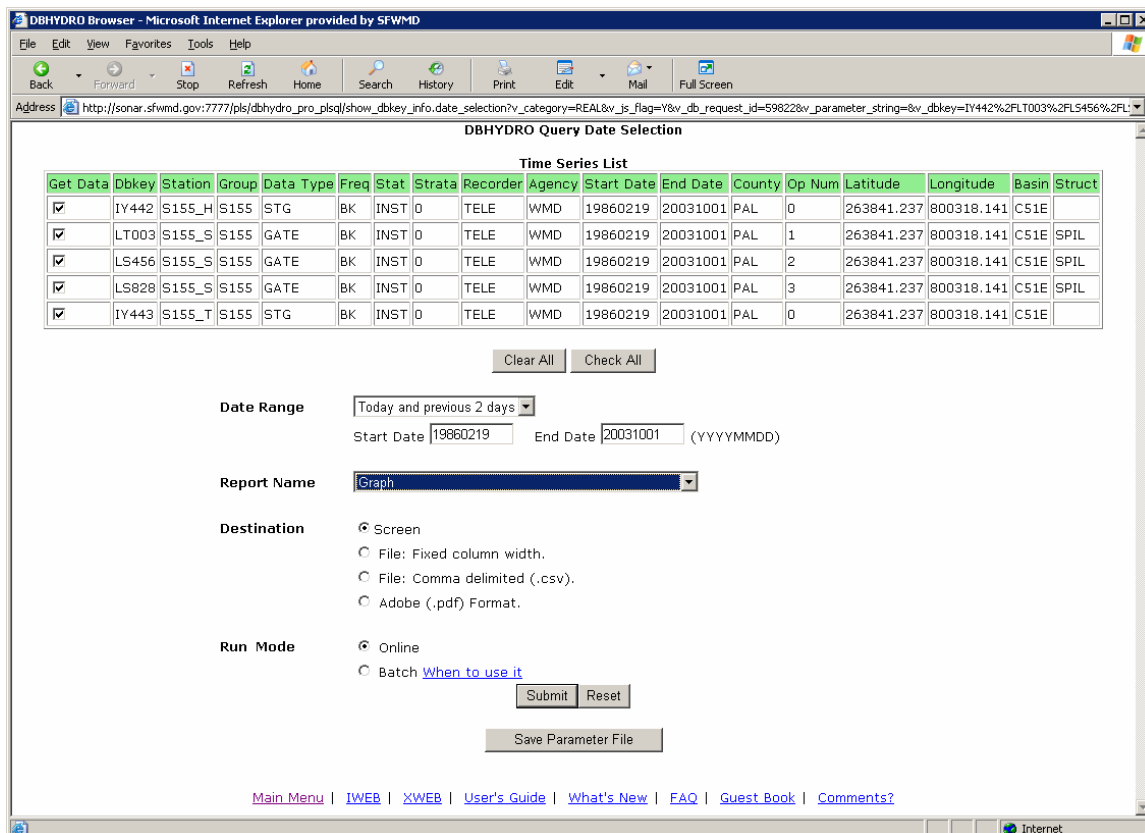
Select site S155 from the list of values and select “Submit”...



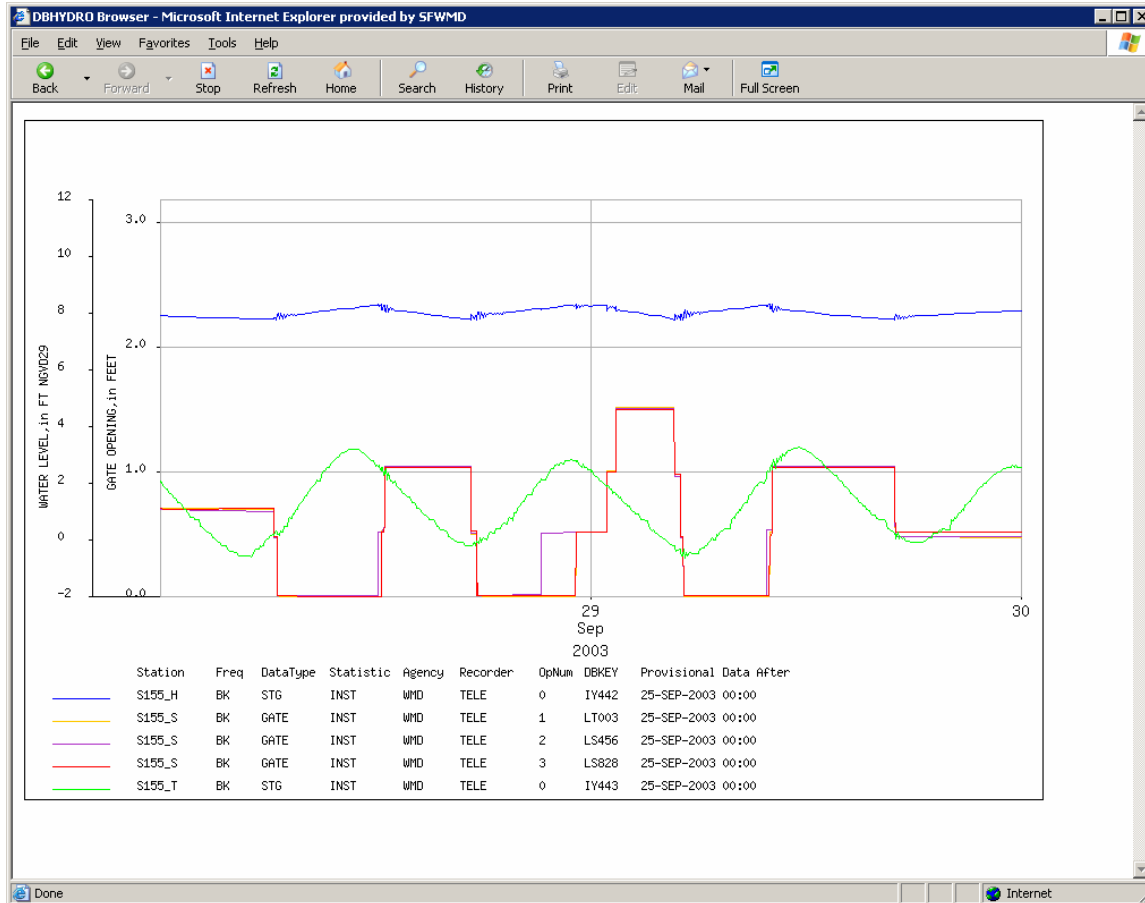
Select the time series of interest and select “Get Data”



Set the Date Range for “Today and previous 2 days”, select the Plot radio button, and press the Submit button.



A hydrograph with current data is generated and displayed:



This graph shows stage (water levels) and gate openings for the past two days. It also tells us before which date each time series is provisional. Provisional data is that data which is considered not to have undergone standard and accepted review procedures.

Ground Water Data

Selecting "Ground Water Data" from the main menu leads to the following screen:

Select Search Parameters

DBKEY <input type="checkbox"/>	Station <input type="checkbox"/>
Station Description <input type="checkbox"/>	Group Name <input type="checkbox"/>
Station Id <input type="checkbox"/>	Site <input type="checkbox"/>
Data Type <input type="checkbox"/>	Frequency <input type="checkbox"/>
Statistic Type <input type="checkbox"/>	Strata <input type="checkbox"/>
Recorder <input type="checkbox"/>	Agency <input type="checkbox"/>
County <input type="checkbox"/>	Basin <input type="checkbox"/>
X-Y Coordinates <input type="checkbox"/>	Latitude/Longitude <input type="checkbox"/>
Township <input type="checkbox"/>	Range <input type="checkbox"/>
Section <input type="checkbox"/>	USGS Id <input type="checkbox"/>

[Use Existing Parameter File](#)

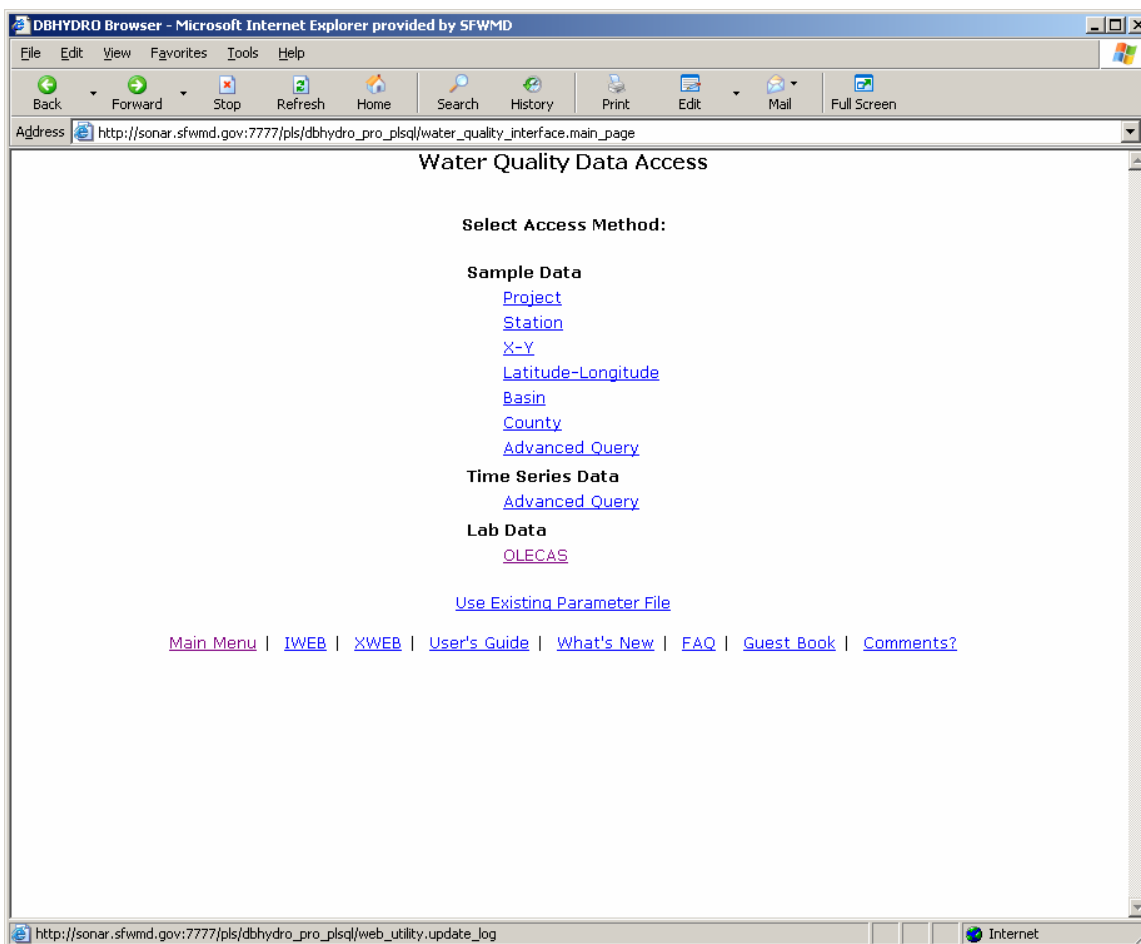
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You will notice there is a slight difference in the search parameters that are available for ground water data. The search parameters are different because ground water data, while related to surface water data, is a different discipline.

Soon "aquifer" will be a criterion that can be used in queries.

Water Quality Data

Selecting "Water Quality Data" from the main menu leads to the following screen:



Most water quality queries have similar characteristics so the interface for water quality has been designed to facilitate the most frequently encountered queries. An Advanced Query option is available for users who require the complete range of flexibility offered by the Surface Water and Meteorological Data interface.

Additionally, for internal users, access to the SFWMD Laboratory Information Management System is offered thru a utility known as OLECAS. OLECAS stands for On Line Environmental Chemist Assistant. More information on OLECAS is at the end of this section.

Selecting Project from the water quality menu leads to this screen in which you can type in a project code or select one or more project codes from the list of values and then select “Next >>”.

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

File Edit View Favorites Tools Help Links >>

Select Desired Project(s)

Enter Project Code:
(Use the "%" sign as a wild card.)
-- OR --
Select From List

CODE	DESCRIPTION
8SQM	- 8 1/2 SQUARE MILE AREA
A	- STRAZULLA GROVE
ACS	- AG - CITRUS STUDY
ARCK	- ARBUCKLE CREEK WATERSHED
ARK	- ARBUCKLE CREEK WATERSHED
ARS	- TAYLOR CREEK-NUBBIN SLOUGH MONITORING ARS-KISSIMMEE
ASR	- STANDARD PACKER TEST SAMPLING AT PBF-13
ASTE	- AUTOSAMPLER TUBING EXPERIMENT
ASVS	- AUTO SAMPLER VALIDATION STUDY
AVOL	- LAKE OKEECHOBEE AQUATIC WEED REMOVAL DEMONSTRATION PROJECT
B	- BACKPUMPING LOWER EAST COAST
BCE	- EVERGLADES AG. AREA WATER QUALITY MANAGEMENT (AG. RUNOFF)
BCSB	- BIG CYPRESS SOUTHERN BOUNDARY
BCWQ	- BIG CYPRESS WATER QUALITY MONITORING
BGMG	- BELLE GLADE MARINA CHLORIDES
BIRP	- OPTIMIZATION OF BMPS FOR BEEF CATTLE RANCHING, L.O. BASIN
BIRW	- BUCK ISLAND RANCH WETLANDS
BISC	- BISCAYNE BAY MONITORING
BN	- C-111 MONITORING
BOY	- BOYNTON BEACH MALL SURFACE WATER MONITORING
BRM	- BRIGHTON RESERVATION MONITORING: NUTRIENT SAMPLING
C	- CLOSED SYSTEM
C11	- CHEMICAL LOADINGS FROM C11 INTO UCA3 VIA S9
C139	- C139 BASIN BEST MANAGEMENT PRACTICE RESEARCH
C43WE	- CERP PROJECT TO INVESTIGATE WATER QUALITY CONDITIONS AT POTENTIAL RES.

(hold ctrl and then click for multiple)

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A list of all the stations for which data has been collected under the given project(s) is provided. Stations of interest may be selected. Select “Next>>”.

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The address bar shows "Links >>". The main content area is titled "Select Desired Station(s)".

Search Criteria
Project Selected: ARCK

If you do not select any Stations, then all Stations, in the list, will be used.

ACBI	- AUTOSAMPLES AT BISHOP DAIRY OUTFALL ON SCRUB PENS RD.
ACCC	- AUTOSAM C & C DAIRY RUNOFF INTO REEDY CREEK
ACDR	- AUTOSAM AT DRESSEL DY. OUTFALL UPSTR. OF RD. DITCH CULVERT
ACTG	- AUTOSAM TRIPPLE G OUTFALL ON SANFORD HARTS RANCH
ARCK 300	- RUNOFF FROM GROVE ADJACENT TO BISHOP DAIRY HWY.
ARCK 301	- RUNOFF FROM BISHOP DAIRY AT CULVERT BY ORANGE GROVE BISHOP DAIRY RD.
ARCK 302	- OUTFALL BISHOP DAIRY AT CULVERT ON SCRUB PEN RD
ARCK 303	- ARBUCKLE BRANCH AT ARBUCKLE CREEK RD HWY 700A
ARCK 304	- SANFORD HART PROP AT CULVERT HWY 700A
ARCK 305	- OUTFALL ON HART PROPERTY HWY 700A
ARCK 306	- OLD BOMBING RNG RD DRESSELL OUTFALL UP STREAM RD DITCH CULVERT
ARCK 307	- STATE RD 64 AT BONNET CRK BRIDGE
ARCK 308	- REEDY CREEK AT REEDY CRK BRIDGE ON SCHOOL BUS RD
ARCK 309	- CCC OUTFALL TO REEDY CRK
ARCK 310	- C & C DAIRY OUTFALL INTO REEDY CREEK
ARCK 311	- ARBUCKLE CREEK AT BRIDGE ON ARBUCKLE CREEK ROAD
ARCK 312	- ARBUCKLE CRK. RD. AT ENTRANCE TO BOMBING RANGE
ARCK 313	- CULVERT ON DRESSEL DAIRY RD. RUNOFF FROM DRESSEL DAIRY
ARCK 314	- TRIPLE G RUNOFF AT CULVERT, ON SANFORD HART RANCH
ARCK 315	- TRIPLE G SPRAYFIELD OUTFALL
FB	- MONITOR SITE FOR WATER QUALITY ASSURANCE PROGRAM
FEB	- MONITOR SITE FOR WATER QUALITY ASSURANCE PROGRAM
FSS	- MONITOR SITE FOR WATER QUALITY ASSURANCE PROGRAM
LABQC	- LAB QUALITY CONTROL SAMPLE
RS	- MONITOR SITE FOR WATER QUALITY ASSURANCE PROGRAM

(hold ctrl and then click for multiple)

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A list of test names, collection methods, and Matrices is presented. Select those upon you which to filter your results. Provide a date range for your query. Select "Next>>".

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File Edit View Favorites Tools Help Links >>

Select Additional Search Criteria

Search Criteria

Project Selected: ARCK

Station Selected: ARCK 307, ARCK 308

Select desired items from the list(s) below. If you do not select any individual items, in a list, then all items, in that list, will be used.

Test Name:

Collection Method:

Matrix:

% ORGANIC MATTER (%)	- 146
% PASSING SIEVE NO.10 (%)	- 824
% PASSING SIEVE NO.100 (%)	- 825
% PASSING SIEVE NO.20 (%)	- 826
% PASSING SIEVE NO.200 (%)	- 827
% PASSING SIEVE NO.40 (%)	- 828
% PASSING SIEVE NO.60 (%)	- 829
1,1,1-TRICHLOROETHANE (ug/Kg)	- 605
1,1,1-TRICHLOROETHANE (ug/L)	- 606
1,1,2,2-TETRACHLOROETHANE (ug/Kg)	- 607

ACF	- Auto-Sampler Composite Flow Proportional
ACT	- Auto-Sampler Composite Time Proportional
ADF	- Auto-Sampler Discrete Flow Proportional
ADT	- Auto-Sampler Discrete Time Proportional
BLK	- Bulk
CXC	- COMPOSITE CROSS SECTION CORE
CIC	- COMPOSITE INTEGRATED CORE
CXI	- Composite Cross Section Integration
CDI	- Composite Depth Integrated
CSI	- Composite Site Integration - Sediment/Soil Only

BAN	- Animal
BFE	- Feathers
BFI	- Fish
GW	- Grnd H2O
BPL	- Plant
PW	- Pore Water
RA	- Rain
SA	- Saline
SE	- Sediment
SO	- Soil

(hold ctrl and then click for multiple)

Begin Date: 1950 JAN 1

End Date: 2002 NOV 6

Next >>

Save Parameter File

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Choose Full Report frm the list of available reporting types:

The screenshot shows a web browser window with the address bar displaying `http://sonar.sfwmd.gov:7777/pls/dbhydro_pro_plsql/water_quality_data.sample_matched`. The browser is Microsoft Internet Explorer. The page title is "Report Selection Page". Below the title, a message states: "Your query criteria returned 2702 results from 239 trips." The page contains three main sections: "Report Type" with a dropdown menu set to "Full Report"; "Output Type" with radio buttons for "HTML: Display directly to browser." (selected), "File: Fixed column width.", "File: Comma delimited.", and "Adobe (.pdf) Format."; and "Run Mode" with radio buttons for "Online" (selected) and "Batch Mode" with a link "When to use it". A "Submit" button is located below these sections. At the bottom of the page, there is a link for "NELAC Laboratory Certification" and a navigation bar with links: "Main Menu", "IWEB", "XWEB", "User's Guide", "What's New", "FAQ", "Guest Book", and "Comments?".

Report Selection Page

Your query criteria returned 2702 results from 239 trips.

Report Type Full Report

Output Type

- ☒ HTML: Display directly to browser.
- ☐ File: Fixed column width.
- ☐ File: Comma delimited.
- ☐ Adobe (.pdf) Format.

Run Mode

- ☒ Online
- ☐ Batch Mode [When to use it](#)

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and the following report is returned to your browser!!!

Project Code	Sample ID	Station ID	Collection Date	Depth	T. Depth	Discharge	Up/Down Stream	Weather	Code	LIMS Number	Test Number	Test Name
ARCK	0002	ARCK 307	03-FEB-1989 12:00	0.00		0	0	0	1 89001402	12		TURBIDITY
ARCK	0002	ARCK 307	03-FEB-1989 12:00	0.00		0	0	0	1 89001402	13		COLOR
ARCK	0002	ARCK 307	03-FEB-1989 12:00	0.00		0	0	0	1 89001402	18		NITRATE+NITI
ARCK	0002	ARCK 307	03-FEB-1989 12:00	0.00		0	0	0	1 89001402	19		NITRITE-N
ARCK	0002	ARCK 307	03-FEB-1989 12:00	0.00		0	0	0	1 89001402	25		PHOSPHATE
ARCK	0002	ARCK 307	03-FEB-1989 12:00	0.00		0	0	0	1 89001402	78		NITRATE-N
ARCK	0002	ARCK 307	03-FEB-1989 12:00	0.00		0	0	0	1 89001402	23		PHOSPHATE (
ARCK	0002	ARCK 307	03-FEB-1989 12:00	0.00		0	0	0	1 89001402	21		KJELDAHL NI
ARCK	0002	ARCK 307	03-FEB-1989 12:00	0.00		0	0	0	1 89001402	20		AMMONIA-N
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	8		DISSOLVED O
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	12		TURBIDITY
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	13		COLOR
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	19		NITRITE-N
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	21		KJELDAHL NI
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	25		PHOSPHATE (
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	78		NITRATE-N
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	65		ORP
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	7		TEMP
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	23		PHOSPHATE (
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	20		AMMONIA-N
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	18		NITRATE+NITI
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	9		SP CONDUCTIV
ARCK	0011	ARCK 307	10-FEB-1989 10:55	0.00		0	0	0	1 89001745	10		PH. FIELD
ARCK	0018	ARCK 307	15-FEB-1989 11:25	0.00		0	0	0	2 89001885	12		TURBIDITY
ARCK	0018	ARCK 307	15-FEB-1989 11:25	0.00		0	0	0	2 89001885	25		PHOSPHATE
ARCK	0018	ARCK 307	15-FEB-1989 11:25	0.00		0	0	0	2 89001885	78		NITRATE-N
ARCK	0018	ARCK 307	15-FEB-1989 11:25	0.00		0	0	0	2 89001885	23		PHOSPHATE (
ARCK	0018	ARCK 307	15-FEB-1989 11:25	0.00		0	0	0	2 89001885	18		NITRATE+NITI
ARCK	0018	ARCK 307	15-FEB-1989 11:25	0.00		0	0	0	2 89001885	19		NITRITE-N
ARCK	0018	ARCK 307	15-FEB-1989 11:25	0.00		0	0	0	2 89001885	21		KJELDAHL NI
ARCK	0018	ARCK 307	15-FEB-1989 11:25	0.00		0	0	0	2 89001885	20		AMMONIA-N
ARCK	0018	ARCK 307	15-FEB-1989 11:25	0.00		0	0	0	2 89001885	13		COLOR
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	8		DISSOLVED O
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	19		NITRITE-N
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	18		NITRATE+NITI
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	7		TEMP
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	78		NITRATE-N
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	65		ORP
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	25		PHOSPHATE
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	23		PHOSPHATE (
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	21		KJELDAHL NI
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	20		AMMONIA-N
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	9		SP CONDUCTIV
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	10		PH. FIELD
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	12		TURBIDITY
ARCK	0110	ARCK 307	24-FEB-1989 13:07	0.00		0	0	0	1 89002130	13		COLOR
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	8		DISSOLVED O
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	21		KJELDAHL NI
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	20		AMMONIA-N
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	78		NITRATE-N
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	65		ORP
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	25		PHOSPHATE
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	23		PHOSPHATE (
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	10		PH. FIELD
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	13		COLOR
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	18		NITRATE+NITI
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	19		NITRITE-N
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	7		TEMP
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	12		TURBIDITY
ARCK	0082	ARCK 307	03-MAR-1989 13:15	0.00		0	0	0	2 89002399	9		SP CONDUCTIV
ARCK	0102	ARCK 307	09-MAR-1989 12:40	0.00		0	0	0	0 89002698	12		TURBIDITY
ARCK	0102	ARCK 307	09-MAR-1989 12:40	0.00		0	0	0	0 89002698	20		AMMONIA-N

The output has many columns as indicated by the presence of scroll bar at the bottom of the screen.

Other basic water quality searches work in a similar manner.

You can return to the water quality menu and perform an “Sample - Advanced Query” if the other “Sample” searches do not suit your needs.

Selecting Advanced Query leads you to this screen which allows for a complete range of query input parameters. Typical queries involve the selection of a project, a possibly a station, and one or more test names...

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The address bar shows the URL: http://sonar.sfwmd.gov:7777/pls/dbhydro_pro_plsql/show_dbkey_info.web_qry_parameter?v_category=WQ. The main content area is titled "Select Search Parameters". It contains two columns of checkboxes for selecting search parameters. The first column includes: Project (checked), Collection Date, LIMS Number, Test Name, Program Type, Matrix, and Latitude/Longitude. The second column includes: Station (checked), Sample ID, Test Number, Sample Type, Collect Method, and X-Y Coordinates. Below these columns is a section titled "Test Group" with checkboxes for: Biological, Major Ions, Miscellaneous, Organic, Field, Metals, Nutrient, and Physical. A note states: "(If no Test Groups are selected, all tests will be returned.)". At the bottom of the form are "Submit" and "Reset" buttons, followed by a link "Use Existing Parameter File". At the very bottom is a navigation bar with links: Main Menu | IWEB | XWEB | User's Guide | What's New | FAQ | Guest Book | Comments?.

Project	<input checked="" type="checkbox"/>	Station	<input checked="" type="checkbox"/>
Collection Date	<input type="checkbox"/>	Sample ID	<input type="checkbox"/>
LIMS Number	<input type="checkbox"/>	Test Number	<input type="checkbox"/>
Test Name	<input type="checkbox"/>	Sample Type	<input type="checkbox"/>
Program Type	<input type="checkbox"/>	Collect Method	<input type="checkbox"/>
Matrix	<input type="checkbox"/>	X-Y Coordinates	<input type="checkbox"/>
Latitude/Longitude	<input type="checkbox"/>		

[Test Group](#)

Biological	<input type="checkbox"/>	Field	<input type="checkbox"/>
Major Ions	<input type="checkbox"/>	Metals	<input type="checkbox"/>
Miscellaneous	<input type="checkbox"/>	Nutrient	<input type="checkbox"/>
Organic	<input type="checkbox"/>	Physical	<input type="checkbox"/>

(If no Test Groups are selected, all tests will be returned.)

[Use Existing Parameter File](#)

[Main Menu](#) | [IWEB](#) | [XWEB](#) | [User's Guide](#) | [What's New](#) | [FAQ](#) | [Guest Book](#) | [Comments?](#)

Program type, matrix, and collection method are unique to water quality data. Data can also be retrieved by the various common test groups. Test groups are a convenient way to specify a family of tests without having to note each test individually.

You may now select from the lists of values...

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The address bar shows a URL starting with "p://sonar.sfwmd.gov:7777/pls/dbhydro_pro_plsql/show_dbkey_info.web_qry_form?v_category=WQ&v_js_flag=Y&v_paramStr=project%2Ftest_number&v_param_value=". The main content area is titled "DBHYDRO Query Criteria". It features two dropdown menus: "Project" and "Test Number". The "Project" dropdown is open, showing a list of projects including "8SQM - 8 1/2 SQUARE MILE AREA", "A - STRAZULLA GROVE", "ACS - AG. CITRUS STUDY", "AEMP - ANION EXCHANGE MEMBRANE PORE WATER", and "ARCK - ARBUCKLE CREEK WATERSHED". The "Test Number" dropdown is also open, showing a list of test names including "ALL", "2 - DEPTH (METERS)", "5 - FIELD TURBIDITY (NTU)", "6 - FIELD CHLORIDE (MG/L)", and "7 - TEMP (Deg C)". Below the dropdowns, there are two radio buttons: "Exclude QC Data" (selected) and "Include QC Data". There are also two radio buttons: "Report All Trips" (selected) and "Select Trips to Report". At the bottom of the form, there are three buttons: "Submit", "Clear", and "Save Parameter File". Below the buttons, there is a navigation bar with links: "Main Menu", "IWEB", "XWEB", "User's Guide", "What's New", "FAQ", "Guest Book", and "Comments?".

In this example the user has selected the 8SQM project and let the test name criteria default to 'ALL'. The user could also simply have not bothered to check the test name check box in the first place in order to achieve the effect of selecting all test names. The user may select to report on all trips or filter out trips based on a subsequently prescribed date range. In this example, data from all trips are being sought as there is no desire to filter out specific trips prior to data retrieval.

The default excludes the Quality Control (QC) results. However, if one wishes to retrieve QC results such as "spikes" and "blanks" one may choose the "Include QC Data" radio button.

After selecting the submit button, summary information about the complete report is presented followed by a report layout options selector and output format list...

The screenshot shows a web browser window with the address bar displaying `http://sonar.sfwmd.gov:7777/pls/dbhydro_pro_plsql/water_quality_data.sample_matched?v_parameter`. The page title is "Report Selection Page". Below the title, a message states: "Your query criteria returned 1793 results from 118 trips." The form contains three main sections: "Report Type" with a dropdown menu set to "Cross Tab Report (portrait)"; "Output Type" with radio buttons for "HTML: Display directly to browser." (selected), "File: Fixed column width.", "File: Comma delimited.", and "Adobe (.pdf) Format."; and "Run Mode" with radio buttons for "Online" (selected) and "Batch Mode" (with a link "When to use it"). A "Submit" button is located below these options. At the bottom of the page, there is a link for "NELAC Laboratory Certification" and a horizontal menu of links: "Main Menu", "IWEB", "XWEB", "User's Guide", "What's New", "FAQ", "Guest Book", and "Comments?".

Report Selection Page

Your query criteria returned 1793 results from 118 trips.

Report Type Cross Tab Report (portrait)

Output Type

- ☒ HTML: Display directly to browser.
- ☐ File: Fixed column width.
- ☐ File: Comma delimited.
- ☐ Adobe (.pdf) Format.

Run Mode

- ☒ Online
- ☐ Batch Mode [When to use it](#)

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An example listing of the “Full Report” output to the screen follows:

An alternate approach to a complete listing would be to select results by trip...

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The browser's address bar and menu bar are visible. The main content area is titled "DBHYDRO Query Criteria".

Under the "Project" label, there is a list box containing the following items:

- BSQM - 8 1/2 SQUARE MILE AREA
- A - STRAZULLA GROVE
- ACS - AG. CITRUS STUDY
- AEMP - ANION EXCHANGE MEMBRANE PORE WATER
- ARCK - ARBUCKLE CREEK WATERSHED

Under the "Test Number" label, there is a list box containing the following items:

- ALL
- 2 - DEPTH (METERS)
- 5 - FIELD TURBIDITY (NTU)
- 6 - FIELD CHLORIDE (MG/L)
- 7 - TEMP (Deg C)

Below the list boxes, there are two radio button options:

- ☒ Exclude QC Data
- ☐ Include QC Data

Below these, there are two more radio button options:

- ☐ Report All Trips
- ☒ Select Trips to Report

At the bottom of the form area, there are three buttons: "Submit", "Clear", and "Save Parameter File".

At the very bottom of the page, there is a horizontal menu of links: [Main Menu](#), [IWEB](#), [XWEB](#), [User's Guide](#), [What's New](#), [FAQ](#), [Guest Book](#), and [Comments?](#)

A list of relevant trips meeting the specified criteria is displayed along with the number of results derived from each trip...

DBHYDRO Browser - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Stop

Bookmarks Location: http://sonar.sfwmd.gov:9035/dbhydro/water_quality_data_1.sample_matched_4?v_category=WQ&v_project=8SQM&v_station_id=&v_test_name= What's Related

Trip Listing

Get Data	Project	Station ID	Collection Date	Total
<input type="checkbox"/>	8SQM	G211	19970521	21
<input type="checkbox"/>	8SQM	G211	19970612	17
<input type="checkbox"/>	8SQM	G211	19970721	2
<input type="checkbox"/>	8SQM	G211	19970722	28
<input type="checkbox"/>	8SQM	G211	19970825	21
<input type="checkbox"/>	8SQM	G211	19970922	21
<input type="checkbox"/>	8SQM	G211	19971020	30
<input type="checkbox"/>	8SQM	G211	19971117	20
<input type="checkbox"/>	8SQM	G211	19971215	21
<input type="checkbox"/>	8SQM	G211	19980122	32
<input type="checkbox"/>	8SQM	G211	19980219	21
<input type="checkbox"/>	8SQM	G211	19980302	21
<input type="checkbox"/>	8SQM	G211	19980319	21
<input type="checkbox"/>	8SQM	G211	19980401	33
<input type="checkbox"/>	8SQM	G211	19980415	21
<input type="checkbox"/>	8SQM	G211	19980429	21
<input type="checkbox"/>	8SQM	G211	19980513	21
<input type="checkbox"/>	8SQM	G211	19980528	21
<input type="checkbox"/>	8SQM	G211	19980610	21
<input type="checkbox"/>	8SQM	G211	19980625	21
<input type="checkbox"/>	8SQM	G211	19980708	29

After selecting the trips of interest....

<input type="checkbox"/>	8SQM	G211	20010702	1
<input type="checkbox"/>	8SQM	G211	20010717	1
<input type="checkbox"/>	8SQM	G211	20010730	24
<input type="checkbox"/>	8SQM	G211	20010814	1
<input type="checkbox"/>	8SQM	G211	20010828	15
<input type="checkbox"/>	8SQM	G211	20010912	15
<input type="checkbox"/>	8SQM	G211	20010925	15
<input type="checkbox"/>	8SQM	G211	20011010	23
<input type="checkbox"/>	8SQM	G211	20011023	1
<input type="checkbox"/>	8SQM	G211	20011108	16
<input type="checkbox"/>	8SQM	G211	20011120	12
<input type="checkbox"/>	8SQM	G211	20011204	16
<input type="checkbox"/>	8SQM	G211	20011218	16
<input type="checkbox"/>	8SQM	G211	20020103	23
<input type="checkbox"/>	8SQM	G211	20020115	20
<input type="checkbox"/>	8SQM	G211	20020129	15
<input type="checkbox"/>	8SQM	G211	20020212	1
<input type="checkbox"/>	8SQM	G211	20020226	14
<input type="checkbox"/>	8SQM	G211	20020312	16
<input type="checkbox"/>	8SQM	G211	20020326	15
<input type="checkbox"/>	8SQM	G211	20020409	17
<input type="checkbox"/>	8SQM	G211	20020423	23

Get Data

Clear All Check All

Query returned 118 Trips.

Save Parameter File

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the user selects the Get Data button.

Getting data results in the following listing which is a consolidation of the selected trips:

Report Selection Page

Trip Listing

Get Data	Project	Station ID	Collection Date	Total
<input checked="" type="checkbox"/>	8SQM	G211	20020409	17
<input checked="" type="checkbox"/>	8SQM	G211	20020423	23

Report Type

Output Type ☒ HTML: Display directly to browser.
☐ File: Fixed column width.
☐ File: Comma delimited.
☐ Adobe (.pdf) Format.

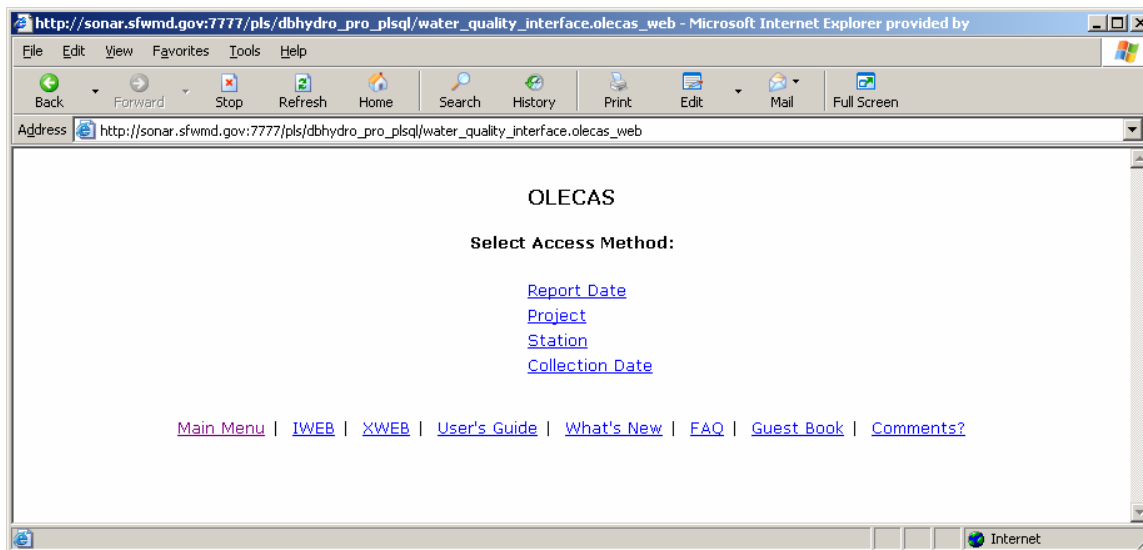
Run Mode ☒ Online
☐ Batch Mode [When to use it](#)

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The report type and output options are the same as for reporting on all trips.

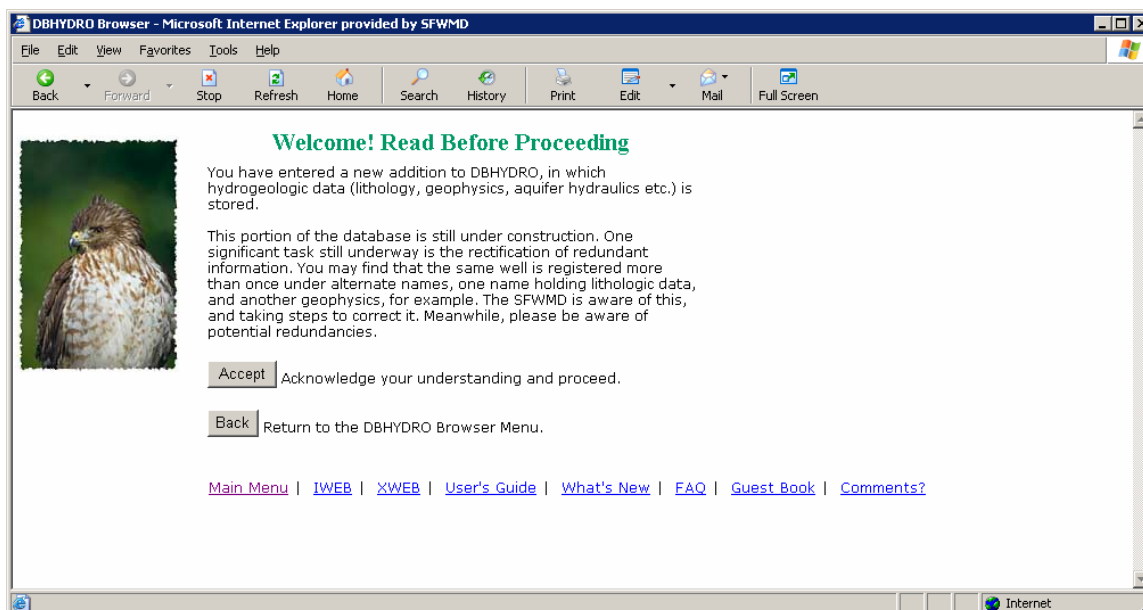
Returning to the Water Quality menu and selecting OLECAS brings us to the following screen:



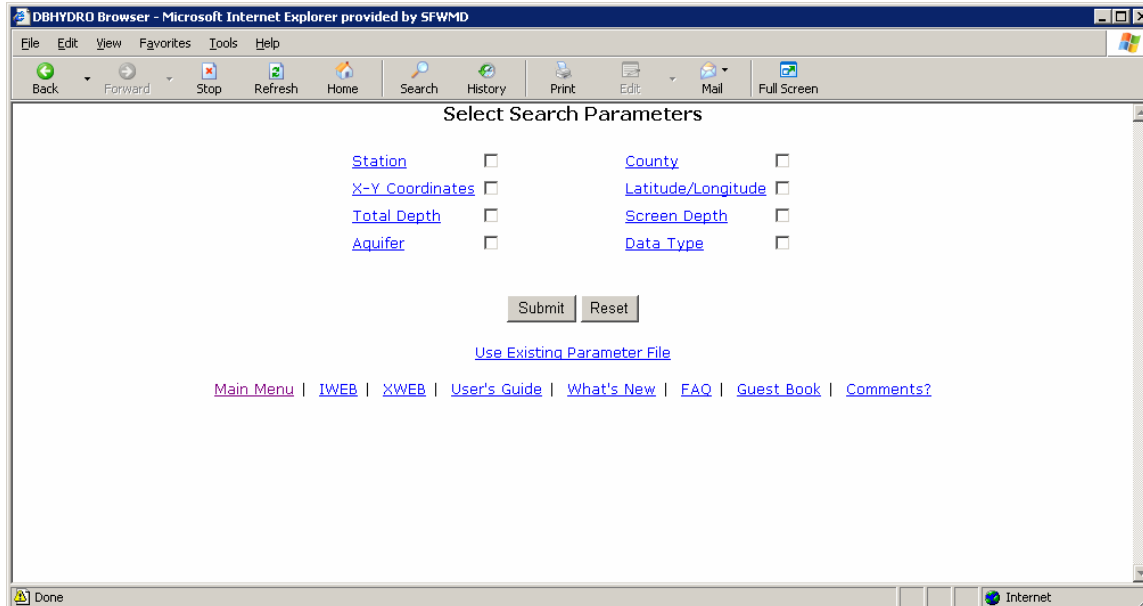
From here, the internal users may examine the laboratory data for potential outliers according to the statistical distribution of the data.

Hydrogeologic Data

Selecting *Hydrogeologic Data* from the main menu takes you to the following page:



Accepting the disclaimer leads the user to the next page:



While the search parameters look similar to those in *Ground Water Data*, queries under *Hydrogeologic Data* direct you to well construction specifications, geophysical, hydraulic and lithologic data, and multimedia data rather than to time series data. Once you have chosen your selection criteria, the browser directs you to a page that displays that criteria and allows you to submit or save your parameters to a file.

In the example below, a query was built to select all wells in Palm Beach County with total depths between 300 and 400 feet.

You would select County and Total Depth as shown below...

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

File Edit View Favorites Tools Help

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Select Search Parameters

Station	<input type="checkbox"/>	County	<input checked="" type="checkbox"/>
X-Y Coordinates	<input type="checkbox"/>	Latitude/Longitude	<input type="checkbox"/>
Total Depth	<input checked="" type="checkbox"/>	Screen Depth	<input type="checkbox"/>
Aquifer	<input type="checkbox"/>	Data Type	<input type="checkbox"/>

Submit Reset

[Use Existing Parameter File](#)

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and then click on “Submit”.

The following screen will appear. This screen allows you to select the specific county or counties and specify the range of total depth...

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The address bar is empty. The menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar contains icons for Back, Forward, Stop, Refresh, Home, Search, Favorites, History, Mail, Print, Edit, and AIM. The main content area is titled "DBHYDRO Query Criteria". It contains a form with the following elements:

- A "County" label followed by a dropdown menu showing a list of counties: ORANGE, OSCEOLA, PALM BEACH (highlighted), PASCO, and PINELLAS.
- A "Total Depth From" label followed by a text input field containing the value "300".
- A "Total Depth To" label followed by a text input field containing the value "400".
- A note below the input fields: "Separate multiple values in Text field by '/'. The '%' character may be used as a wildcard."
- Two buttons: "Submit" and "Clear".
- A "Save Parameter File" button.

At the bottom of the page, there is a horizontal menu with the following links: [Main Menu](#), [IWEB](#), [XWEB](#), [User's Guide](#), [What's New](#), [FAQ](#), [Guest Book](#), and [Comments?](#)

Clicking on “submit” leads you to the Output Parameters Selection screen...

This screen allows you to select what kind of report you want and where you want the output to go...

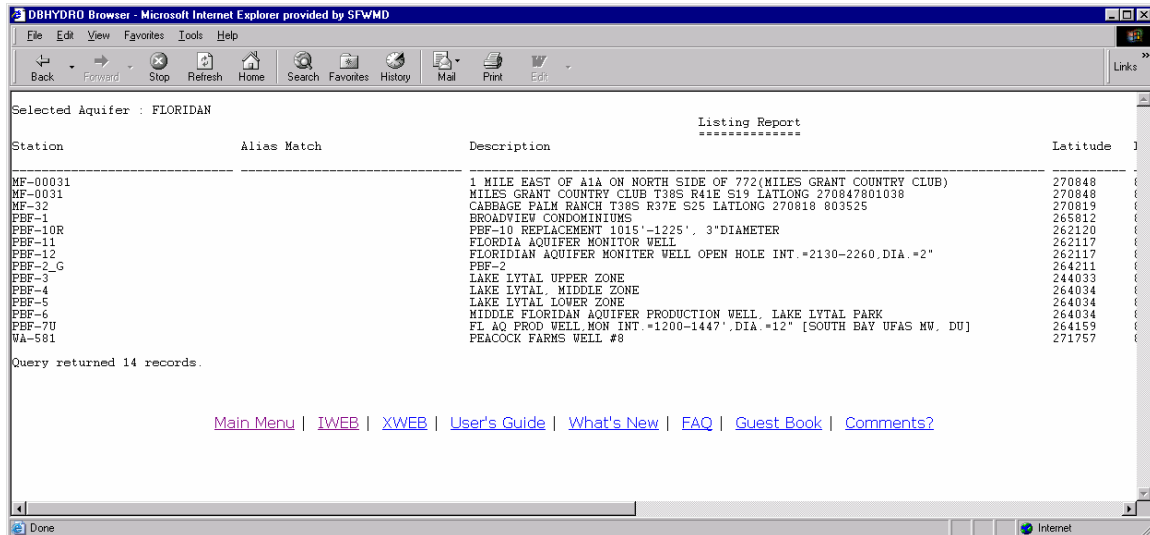
The screenshot shows a Netscape browser window titled "DBHYDRO Browser - Netscape". The address bar contains the URL: `ro_pro_plsql/show_wilma_info.output_param_selection?v_flag=Y&v_category=HG&v_county=PAL&v_depth_total_f=300&v_depth_total_t=400`. The main content area is titled "Output Parameters Selection" and contains the following form elements:

- Selected Parameters :**
 - County : PALM BEACH
 - Total Depth From : 300
 - Total Depth To : 400
- Output Format :**
 - ☒ Listing Report
 - ☐ Header-Detail Report
 - ☐ Summary Report
- Output To :**
 - ☒ Screen
 - ☐ File

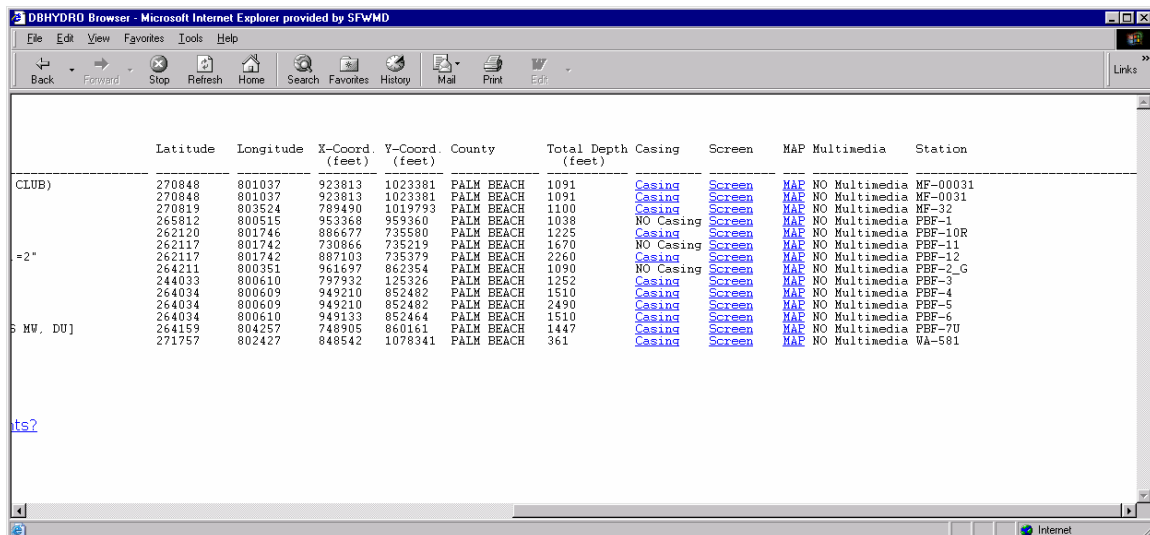
At the bottom of the form are two buttons: "Submit" and "Reset". Below the buttons is a navigation bar with the following links: [Main Menu](#) | [IWEB](#) | [XWEB](#) | [User's Guide](#) | [What's New](#) | [FAQ](#) | [Guest Book](#) | [Comments?](#)

In this example, a Listing Report is chosen.

The Listing Report Option (shown below) returns a table with names, locations, and highlighted items for construction and multimedia data when available.



The Listing Report is wide and you will have to scroll to the right to see that there are links to casing, screen, and multimedia information. There is also a link to a map.



A Header-Detail report lists the information for all wells that met your search criteria and the report looks like this...

Selected Aquifer : FLORIDAN

Header-Detail Report

Station : MF-00031 [MAP](#) NO Multimedia
 Alias Match :
 Description : 1 MILE EAST OF A1A ON NORTH SIDE OF 772(MILES GRANT COUNTRY CLUB)
 Latitude : 270848
 Longitude : 801037
 X Coordinate : 923813 (feet)
 Y Coordinate : 1023381 (feet)
 County : PALM BEACH
 Total Depth : 1091 (feet)

Casing Details for the station MF-00031

Casing Type	Depth Min. (feet)	Depth Max. (feet)	Diameter (inches)
BLACK IRON	0	844	6

Screen Details for the station MF-00031

Screen Type	Depth Min. (feet)	Depth Max. (feet)	Diameter (inches)	Aquifer
OPEN HOLE	844	1091		FLORIDAN

Station : MF-0031 [MAP](#) NO Multimedia
 Alias Match :
 Description : MILES GRANT COUNTRY CLUB T38S R41E S19 LATLONG 270847801038
 Latitude : 270848
 Longitude : 801037
 X Coordinate : 923813 (feet)
 Y Coordinate : 1023381 (feet)
 County : PALM BEACH
 Total Depth : 1091 (feet)

Casing Details for the station MF-0031

Casing Type	Depth Min. (feet)	Depth Max. (feet)	Diameter (inches)
BLACK IRON	0	844	6

Screen Details for the station MF-0031

Screen Type	Depth Min. (feet)	Depth Max. (feet)	Diameter (inches)	Aquifer
OPEN HOLE	844	1091		FLORIDAN

Station : MF-32 [MAP](#) NO Multimedia
 Alias Match :
 Description : CABBAGE PALM RANCH T38S R37E S25 LATLONG 270818 803525
 Latitude : 270819
 Longitude : 803524
 X Coordinate : 789490 (feet)
 Y Coordinate : 1019793 (feet)
 County : PALM BEACH
 Total Depth : 1100 (feet)

Casing Details for the station MF-32

Casing Type	Depth Min. (feet)	Depth Max. (feet)	Diameter (inches)
BLACK IRON	0	844	6

Screen Details for the station MF-32

Screen Type	Depth Min. (feet)	Depth Max. (feet)	Diameter (inches)	Aquifer
OPEN HOLE	844	1091		FLORIDAN

The Header Detail option (above) offers a different display format, and shows casing and screen details on screen when they are available instead of just showing links. Both the Header Detail and the Listing Report options have links to multimedia data. These multimedia data include photos and documents in a wide variety of formats, including JPG, TXT, TIFF, XLS, PDF, and others.

The summary report (below) shows all the different types of data available for each well appearing in the query.

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

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Summary Report
 =====

Station	County	DBHYDRO	SFWMD	USGS SITE ID	USGS STATION NAME
PB-1095	PALM BEACH			263138080064701	PB -1095
PB-1195	PALM BEACH			263044080035102	PB -1195
PB-653	PALM BEACH			264656080052901	PB - 653
PB-667	PALM BEACH			264122080054601	PB - 667
PB-670	PALM BEACH			263517080051801	PB - 670
PB-674	PALM BEACH			26290208005401	PB - 674
PB-807B_G	PALM BEACH			264123080054801	PB - 807
W-12425	PALM BEACH				
W-12426	PALM BEACH				
W-12435	PALM BEACH				
W-12436	PALM BEACH				
W-16064	PALM BEACH				
W-16065	PALM BEACH		099-18		
W-16072	PALM BEACH		099-29		
W-17612	PALM BEACH				
W-17643	PALM BEACH				
WA-581	PALM BEACH				

Query returned 17 records.

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DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

File Edit View Favorites Tools Help

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NAME	FGS	X-Coord. (feet)	Y-Coord. (feet)	Datatype				Station
				Lithologic	Geophysics	Hydraulic	Construction	Time Series
		946255	798449	No	Yes	No	No	PB-1095
		962732	793518	No	Yes	No	Yes	PB-1195
		952679	891193	No	Yes	No	Yes	PB-653
		951377	857457	No	Yes	No	Yes	PB-667
		948733	820581	No	Yes	No	Yes	PB-670
		945726	782694	No	Yes	No	Yes	PB-674
		951197	857555	No	No	No	Yes	PB-807B_G
	W-12425	956543	820434	Yes	No	No	Yes	No
	W-12426	954670	828398	Yes	No	No	Yes	No
	W-12435	954482	778312	Yes	No	No	Yes	No
	W-12436	933375	740101	Yes	No	No	Yes	No
	W-16064	903934	812112	Yes	No	No	Yes	No
	W-16065	950451	890750	Yes	Yes	No	Yes	No
	W-16072	949329	852090	Yes	No	No	Yes	No
	W-17612	948839	805435	Yes	No	No	Yes	No
	W-17643	927654	738650	Yes	No	No	Yes	No
		848542	1078341	No	No	No	No	WA-581

The Summary Report format provides highlighted links to the different data types offered in the hydrogeologic section of DBHYDRO. The link to time series data will bring up a list of all time series for this station including water quality and hydrologic data.

Clicking on the 'Yes' link under Lithologic for station W-12425, produces a detailed lithologic description as shown below:

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit AIM

Lithologic Details

Station X-Coord. Y-Coord.
(feet) (feet)

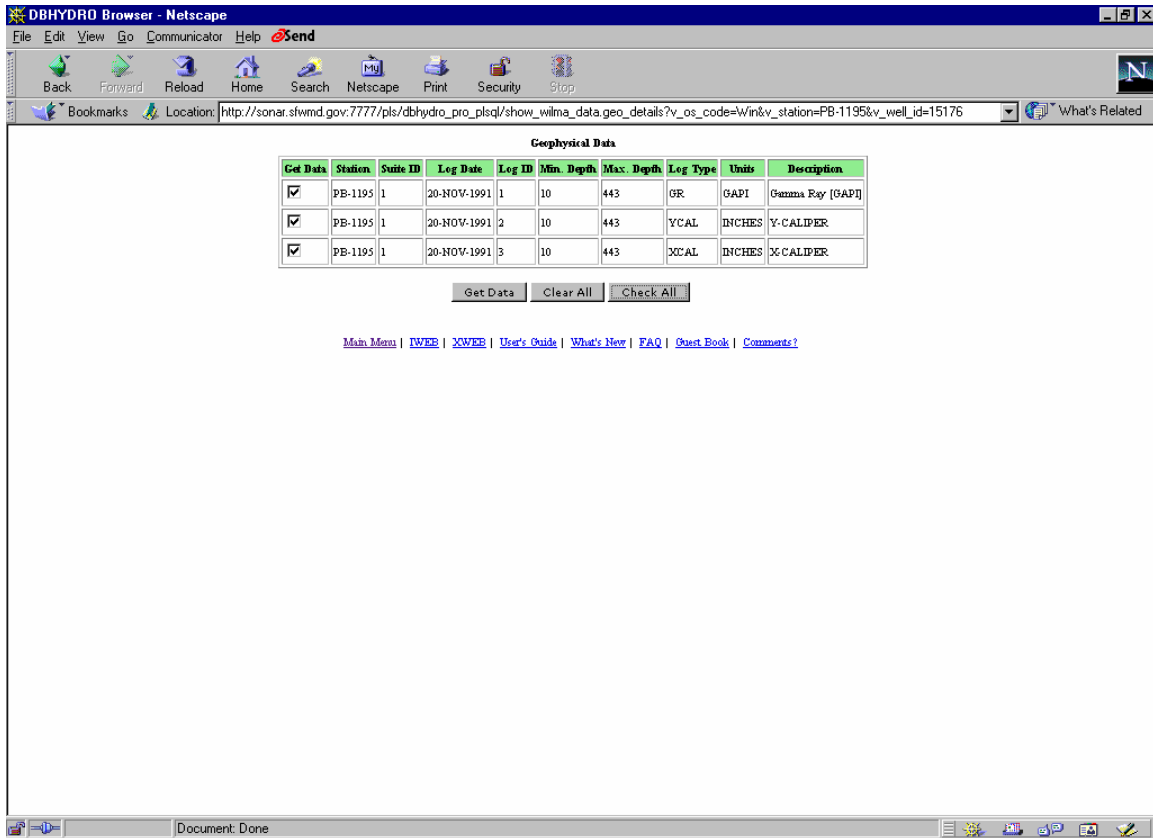
W-12425 956543 820434

Min. Depth	Max. Depth	Primary Rock	% Primary Rock	Primary Color	Induration	% Porosity
0	200	SAND (QUARTZ)		DARK YELLOWISH ORANGE	UNCONSOLIDATED	
200	300	SAND (QUARTZ)		DARK YELLOWISH ORANGE	UNCONSOLIDATED	
300	450	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	SAMPLE INCLUDES /
450	600	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	SAMPLE INCLUDES /
600	800	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	SAMPLE INCLUDES /
800	900	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	SAMPLE INCLUDES /
900	1100	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	SAMPLE INCLUDES /
1100	1250	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	
1250	1300	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	
1300	1350	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	
1350	1400	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	SAMPLE INCLUDES /
1400	1500	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	ORLY CONSOLIDATEI SAMPLE INCLUDES / ORLY CONSOLIDATEI SAMPLE CONTAINS / RTY CONSOLIDATED ED ALLOCHEMS. ANI TAL LIMESTONE CHU SAMPLE INCLUDES / F PELLETAL LIMES SAMPLE CONTAINS / RACE AMOUNTS OF I ND SOME FROSTED / SAMPLE INCLUDES / LIMESTONE CUTTING T IS GREATER. ANI HE SAND LIMESTONE IS LESS LL FRAGMENTS.
1500	1640	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	
1640	1750	SAND (QUARTZ)		YELLOWISH GRAY	UNCONSOLIDATED	
1750	1900	LIMESTONE		MODERATE BLUISH GRAY	MODERATE	
1900	2050	LIMESTONE		MODERATE BLUISH GRAY	MODERATE	
2050	2200	LIMESTONE		YELLOWISH GRAY	MODERATE	
2200	2350	LIMESTONE		YELLOWISH GRAY	POOR	
2350	2500	LIMESTONE		LIGHT GREENISH YELLOW	POOR	LOOSE PELLETS ARE ELLETS IN THE LIT SAMPLE IS A MIXTU AND. AND CALCITE HALF OF THE PIECE SAMPLE INCLUDES / RITIC SANDSTONE. AIS.
2500	2800	LIMESTONE		VERY LIGHT ORANGE	POOR	
2800	2950	SANDSTONE		LIGHT OLIVE GRAY	POOR	
2950	3250	SAND (QUARTZ)		OLIVE GRAY	UNCONSOLIDATED	
3250	3450	SAND (QUARTZ)		LIGHT OLIVE GRAY	POOR	SAMPLE ALSO INCLI PELLETAL LIMESTO

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This information can be saved to a text file (save as .txt) through the web browser File menu.

Clicking on the summary report 'Yes' link under the Geophysics datatype takes you through a series of screens which allow you to create a file in Log ASCII Standard format (LAS).



The screenshot shows a Netscape browser window titled "DBHYDRO Browser - Netscape". The address bar contains the URL: `sql/show_wilma_data.suite_selection?v_os_code=Wm&v_station=PB-1195&v_well_id=15176&v_geo_suite=1%2F1%2F1&v_geo_log=1%2F2%2F3`. The main content area displays a "Suite Selection" table with the following data:

Get Data	Station	Suite ID	Log Date	Log ID	Min. Depth	Max. Depth	Log Type	Units	Description
	PB-1195	1	20-NOV-1991	1	10	443	GR	GAPI	Gamma Ray [GAPI]
				2	10	443	YCAL	INCHES	Y-CALIPER
				3	10	443	XCAL	INCHES	X-CALIPER

Below the table is a button labeled "Create LAS File". At the bottom of the page, there is a navigation menu with links: [Main Menu](#), [IWEB](#), [XWEB](#), [User's Guide](#), [What's New](#), [FAQ](#), [Guest Book](#), and [Comments?](#).

```

~VERSION INFORMATION
VERS.                2.0: CWLS LOG ASCII STANDARD -VERSION 2.0
WRAP.                NO: ONE LINE PER DEPTH STEP
~WELL INFORMATION
#MNEM.UNIT          DATA VALUE          DATA DESCRIPTION
#-----
STRT.FT              10.00: Starting Depth
STOP.FT              443.00: Ending Depth
STEP.FT              0.50: Level Spacing
NULL.                -999.25: Null Value
COMP.                Output from SFWMD Hydrogeologic Database: Company
WELL.                PB-1195: Well
FLD.                 BOYNTON BEACH MW-1: Field
LOC.                 Latitude 263049, Longitude 800345: Location
PROV.                PALM BEACH, FLORIDA: County and State
SRVC.                FLORIDA GEOPHYSICAL LOGGING INC.: Service Company
DATE.                20-NOV-1991: Log Date
UWI.                 1: Unique Suite Id
LIC.                 : License Number
~CURVE INFORMATION
#MNEM.UNIT          API CODE          CURVE DESCRIPTION
#-----
DEPT.FT              : Depth
GR.                  : Gamma Ray [GAPI]
YCAL.INCHES          : Y-CALIPER
XCAL.INCHES          : X-CALIPER
~PARAMETER INFORMATION
#MNEM.UNIT          VALUE          PARAMETER DESCRIPTION
#-----
LSE.FT              18.90: Land Surface Elevation
LSD.                 NGVD29: Land Surface Datum
DW.IN               : Diameter of Well
TDW.FT              325.00: Total Finished Depth of Well
TDC.FT              300.00: Total Finished Depth of Casing
EKB.FT              0.00: Kelly Bushing
EDF.FT              0.00: Drilling Floor
~A  DEPTH          GR          YCAL          XCAL
    10.00          9.54          10.06          11.10
    10.50          9.54          6.89           7.45
    11.00          9.34          6.51           7.09
    11.50          8.92          6.49           7.06
    12.00          8.66          6.53           7.07
    12.50          8.38          6.60           7.13
    13.00          8.00          6.73           7.30
    13.50          7.10          6.96           7.51
    14.00          6.51          7.21           7.69
    14.50          6.23          7.47           8.15
    15.00          5.94          7.84           8.54
    15.50          5.89          8.07           8.80
    16.00          6.06          8.20           8.85
    16.50          6.33          8.26           8.71
    17.00          6.70          7.69           8.05
    17.50          7.47          6.79           6.73
    18.00          7.79          5.79           6.25
    18.50          8.51          5.69           6.03
    19.00          9.01          5.62           5.93
    19.50          9.58          5.57           5.90
    20.00          10.17         5.57           5.89

```

Example of Geophysical Data Exported from DBHYDRO Browser to LAS Format

Clicking on the summary report 'Yes' link under the Hydraulic data takes you to a screen showing the aquifer characteristics, test details, and analysis methods employed for any aquifer performance tests associated with the well.

Hydraulic Details

Site : JONATHAN DICKINSON STATE PARK -M1281

Test Type : APT

Start Test Date Time : 26-APR-1989 0000

Pumped Well : M-1281

Pumped Well X-Coord : 927986 (feet)

Pumped Well Y-Coord : 979684 (feet)

Hours Pumped : 71.5

Tested Interval Min : 30 (ft)

Tested Interval Max : 120 (ft)

No Monitored Wells : 2

Aquifer : SURFICIAL AQUIFER SYSTEM

Source :

Reference :

Station	X-Coord (feet)	Y-Coord (feet)	Analysis Method	Distance from Production Well (ft)	Max Drawdown (ft)	Transmissivity (ft**2/day)	Storativity	Leakance
1D_JDGP			NEUMAN	76		3604.95	.00052	
2D_JDGP			NEUMAN	157		2817.51	.00047	

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Access by Site Name

Sites represent a collection of stations. Therefore, you can gain access to a group of related stations by accessing a single site. By virtue of this “one-to-many” relationship, the site listing will always be shorter than the station listing. Selecting "Access By Site Name" from the DBHYDRO Browser menu brings up the following:

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The address bar shows a URL. The main content area is titled "Site Listing (by Alphanumeric Grouping)". It features a search interface with the following elements:

- A "Site Name:" label followed by a text input field and the instruction "Use the \"%\" sign as a wild card."
- An "AND / OR" label.
- Latitude search fields: "Latitude From:" and "Latitude To:".
- Longitude search fields: "Longitude From:" and "Longitude To:".
- An "AND / OR" label.
- X-Y coordinate search fields: "X Coordinate From:", "X Coordinate To:", "Y Coordinate From:", and "Y Coordinate To:".
- "Submit" and "Reset" buttons.

At the top of the search area, there is a row of letters: [1](#) | [2](#) | [3](#) | [4](#) | [5](#) | [6](#) | [7](#) | [8](#) | [9](#) | [A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

At the bottom of the page, there is a navigation menu with links: [Main Menu](#) | [IWEB](#) | [XWEB](#) | [User's Guide](#) | [What's New](#) | [FAQ](#) | [Guest Book](#) | [Comments?](#)

On this screen you can select the letter that corresponds with the first letter of the name of the site in which you are interested. Alternatively you can type in the name of the site in which you are interested. The percent sign “%” can be used as a wildcard character. You may also select by a lat-lon or x-y box. X-Y coordinates are Florida state plane NAD83 HARN East Zone in units of feet.

In this example we show selection by letter. Once a letter is selected, a list of database sites beginning with the selected letter will appear as follows:

DBHYDRO Browser User Documentation South Florida Water Management District

DBHYDRO Browser - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Stop

Bookmarks Location: http://sonar.sfwmd.gov:9035/dbhydro/show_dcvp_info.show_site_info?y_site=T%25

Site Information

Get Data	Site Name	Site Type	Site Group	Site Priority	Contact Authority	Site Status	Site Status Date	Rec Status	Description
<input type="checkbox"/>	T3			2		A	16-OCT-2001	A	
<input type="checkbox"/>	T5			2		A	16-OCT-2001	A	
<input type="checkbox"/>	TAFT	URBAN	UNKNOWN	3	ESDA - VIBERT	A	18-FEB-1992	A	GW-4 RAIN/WELL ON TAFT PROPERTY NEAR ORLANDO
<input type="checkbox"/>	TAFT DWI			2		A	01-JAN-1900	A	CANAL INFLOW TO TAFT DRAINWELL
<input type="checkbox"/>	TALISMAN			1		A	01-JAN-1900	A	TALISMAN SUGAR - US SUGAR
<input type="checkbox"/>	TALYC EO			2		A	01-JAN-1900	A	SCS STRUCTURE ON EAST OTTER CREEK TRIBUTARY TO TAYLOR CREEK
<input type="checkbox"/>	TALYC N2			2		A	01-JAN-1900	A	SCS STRUCTURE ON N.W. TAYLOR CREEK DOWNSTREAM FROM BRIDGE (B)
<input type="checkbox"/>	TAM.S333			2		A	01-JAN-1900	A	TAMIAAMI CANAL ABOVE S-333 NR MIAMI, FL
<input type="checkbox"/>	TAMI		UNKNOWN	3		D	18-FEB-1992	A	
<input type="checkbox"/>	TAMI AIR			1		A	01-JAN-1900	A	TAMIAAMI AIRPORT
<input type="checkbox"/>	TAMI DBL			1		A	01-JAN-1900	A	TAMIAAMI CANAL AT DADE-BROWARD LEVEE
<input type="checkbox"/>	TAMI 115			2		A	01-JAN-1900	A	TAMIAAMI CANAL @ BRIDGE 115
<input type="checkbox"/>	TAMI 40M			2		A	01-JAN-1900	A	TAMIAAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, F
<input type="checkbox"/>	TAMI 77			2		A	01-JAN-1900	A	TAMIAAMI CANAL AT BRIDGE 77, NR. CARNESTOWN, FLOR
<input type="checkbox"/>	TAMI 83			2		A	01-JAN-1900	A	TAMIAAMI CANAL OUTLETS AT BRIDGE 83
<input type="checkbox"/>	TAMI 96			2		A	01-JAN-1900	A	TAMIAAMI CANAL @ BRIDGE 96
<input type="checkbox"/>	TAMIA		UNKNOWN	3		D	18-FEB-1992	A	
<input type="checkbox"/>	TAMIAAMI			2		A	01-JAN-1900	A	TAMIAAMI CANAL OUTLETS, MONROE TO CARNESTOWN, FLA
<input type="checkbox"/>	TAMIA TOM	RURAL	BIG CYPRESS	2	ESDA - VIBERT	A	01-JAN-1900	A	TAMIAAMI CANAL AT TOMATO ROAD
<input type="checkbox"/>	TAMIBR37	RURAL	BIG CYPRESS	2	ESDA - LARISEY	A	01-JAN-1900	A	TAMIAAMI CANAL AT BRIDGE 37
<input type="checkbox"/>	TAMIBR52	RURAL	BIG CYPRESS	2	BCB - TIM HOWARD	A	01-JAN-1900	A	TAMIAAMI CANAL AT BRIDGE 52
<input type="checkbox"/>	TAMIBR55	REMOTE	BIG CYPRESS	2	BCB - TIM HOWARD	A	01-JAN-1900	A	TAMIAAMI CANAL AT BRIDGE 55
<input type="checkbox"/>	TAMIHEND			2	ESDA - LARISEY	A	01-JAN-1900	A	TAMIAAMI CANAL EAST OF HENDERSON CREEK
<input type="checkbox"/>	TAMIMIMO			2		A	01-JAN-1900	A	TAMIAAMI CANAL OUTLETS, MIAMI TO MONROE, FLA.
<input type="checkbox"/>	TAMINR37			2		A	01-JAN-1900	A	TAMIAAMI CANAL AT INDIAN VILLAGE NEAR BRIDGE 37

Document: Done

In this example the letter "T" was selected to generate the list of sites indicated. Each of the site names is hyperlinked to information about that site, an example of which is in the Surface Water Data section. One may also get data by site through this screen by checking the "Get Data" box for each site of interest.

Access by Station Name

Selecting "Station Listing" from the DBHYDRO Browser menu brings up the following screen:

Station Listing (by Alphanumeric Grouping)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |

Station Name: Use % sign as a wild card.

AND / OR

Latitude From:

Latitude To:

Longitude From:

Longitude To:

AND / OR

X Coordinate From:

X Coordinate To:

Y Coordinate From:

Y Coordinate To:

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On this screen you can select the letter that corresponds with the first letter of the name of the station in which you are interested. Alternatively you can type in the name of the station in which you are interested. The percent sign “%” can be used as a wildcard character. You may also select by a lat-lon or x-y box. X-Y coordinates are Florida state plane NAD83 East Zone in units of feet.

In this example we show selection by letter. Once a letter is selected, a list of database stations beginning with the selected letter will appear as follows:

DBHYDRO Browser User Documentation South Florida Water Management District

DBHYDRO Browser - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Stop

Bookmarks Location: http://sonar.sfwmd.gov:9035/dbhydro/show_dbkey_info.show_station_info?v_station=T%25

Get Data	Station	Site	Latitude	Longitude	X Coord	Y Coord	County	Basin	Section	Township	Range	Show Map	Structure Info	Description
<input type="checkbox"/>	T		261916.283	802129.175	866423.511	722953.53	BRO	CA2A	28	47	40	Map	Info	6.4 K. SOUTH OF S10C IN WCA-2A
<input type="checkbox"/>	T1-1		252451.332	803523.638	791525.994	393016.114	DAD	ENP	1	58	37	Map	Info	PERIPHYTON/WQ MONITORING
<input type="checkbox"/>	T1-10S		251324.435	802637.211	840079.889	323846.17	DAD	????????				Map	Info	T1 TRANSECT LITTLE BLACKWATER SOUND
<input type="checkbox"/>	T1-1N		251745.424	802637.209	839970.898	350193.744	DAD	C111	17	59	39	Map	Info	T1 TRANSECT JUST NORTH OF C-111 SOUTH OF T1-
<input type="checkbox"/>	T1-1S		251704.426	802637.209	839988.035	346054.825	DAD	C111	20	59	39	Map	Info	T1 TRANSECT JUST SOUTH OF END BOUNDARY
<input type="checkbox"/>	T1-2		252456.851	803536.898	790308.526	393569.646	DAD	ENP	2	58	37	Map	Info	PERIPHYTON/WQ MONITORING
<input type="checkbox"/>	T1-2N		251835.422	802637.209	839949.99	355241.216	DAD	C111	9	59	39	Map	Info	T1 TRANSECT SOUTH OF T1-3N
<input type="checkbox"/>	T1-2S		251636.427	802637.21	839999.735	343228.249	DAD	C111	20	59	39	Map	Info	T1 TRANSECT SOUTH OF T1-1S
<input type="checkbox"/>	T1-3		252455.052	803546.138	789461.892	393385.372	DAD	ENP	2	58	37	Map	Info	PERIPHYTON/WQ MONITORING
<input type="checkbox"/>	T1-3N		251924.42	802637.208	839929.489	360187.748	DAD	C111	4	59	39	Map	Info	T1 TRANSECT SOUTH OF T1-4N
<input type="checkbox"/>	T1-3S		251608.428	802637.21	840011.43	340401.676	DAD	C111	29	59	39	Map	Info	T1 TRANSECT SOUTH OF T1-2S
<input type="checkbox"/>	T1-4N		252017.418	802637.208	839907.303	365538.088	DAD	C111	33	58	39	Map	Info	T1 TRANSECT SOUTH OF T1-5N
<input type="checkbox"/>	T1-4S		251543.429	802637.21	840021.87	337877.953	DAD	C111	29	59	39	Map	Info	T1 TRANSECT SOUTH OF T1-3S
<input type="checkbox"/>	T1-5N		252106.416	802637.207	839886.78	370484.638	DAD	C111	28	58	39	Map	Info	T1 TRANSECT BETWEEN C-109 AND US1 NORTH OF C-
<input type="checkbox"/>	T1-5S		251516.43	802637.21	840033.142	335152.334	DAD	C111	32	59	39	Map	Info	T1 TRANSECT ESTUARY NORTH OF LONG SOUND
<input type="checkbox"/>	T1-6S		251448.431	802637.21	840044.831	332325.78	DAD	C111	32	59	39	Map	Info	T1 TRANSECT ESTUARY NORTH OF LONG SOUND
<input type="checkbox"/>	T1-7S		251420.432	802637.211	840056.52	329499.24	DAD	????????				Map	Info	T1 TRANSECT NORTHEAST LONG SOUND
<input type="checkbox"/>	T1-9S		251352.433	802637.211	840068.206	326672.704	DAD	????????				Map	Info	T1 TRANSECT SOUTHEAST LONG SOUND
<input type="checkbox"/>	T12		264103	802230	704084.391	854830.03	PAL	SSA	32	43	40	Map	Info	SECOND TANK IN FROM WEST IN PROJECT MDOS
<input type="checkbox"/>	T18		264103	802230	704084.391	854830.03	PAL	SSA	32	43	40	Map	Info	EIGHTH TANK IN FROM WEST IN PROJECT MDOS
<input type="checkbox"/>	T19		264103	802230	704084.391	854830.03	PAL	SSA	32	43	40	Map	Info	NINTH TANK IN FROM WEST IN PROJECT MDOS
<input type="checkbox"/>	T2-1		252409.273	803601.619	788056.369	388759.644	DAD	ENP	11	58	37	Map	Info	PERIPHYTON/WQ MONITORING
<input type="checkbox"/>	T2-10S		251256.437	802905.215	826499.469	320965.583	DAD	????????				Map	Info	T2 TRANSECT SOUTHWEST LONG SOUND
<input type="checkbox"/>	T2-11S		251228.438	802905.215	826510.273	318139.068	DAD	????????				Map	Info	T2 TRANSECT NORTHEAST FLORIDA BAY

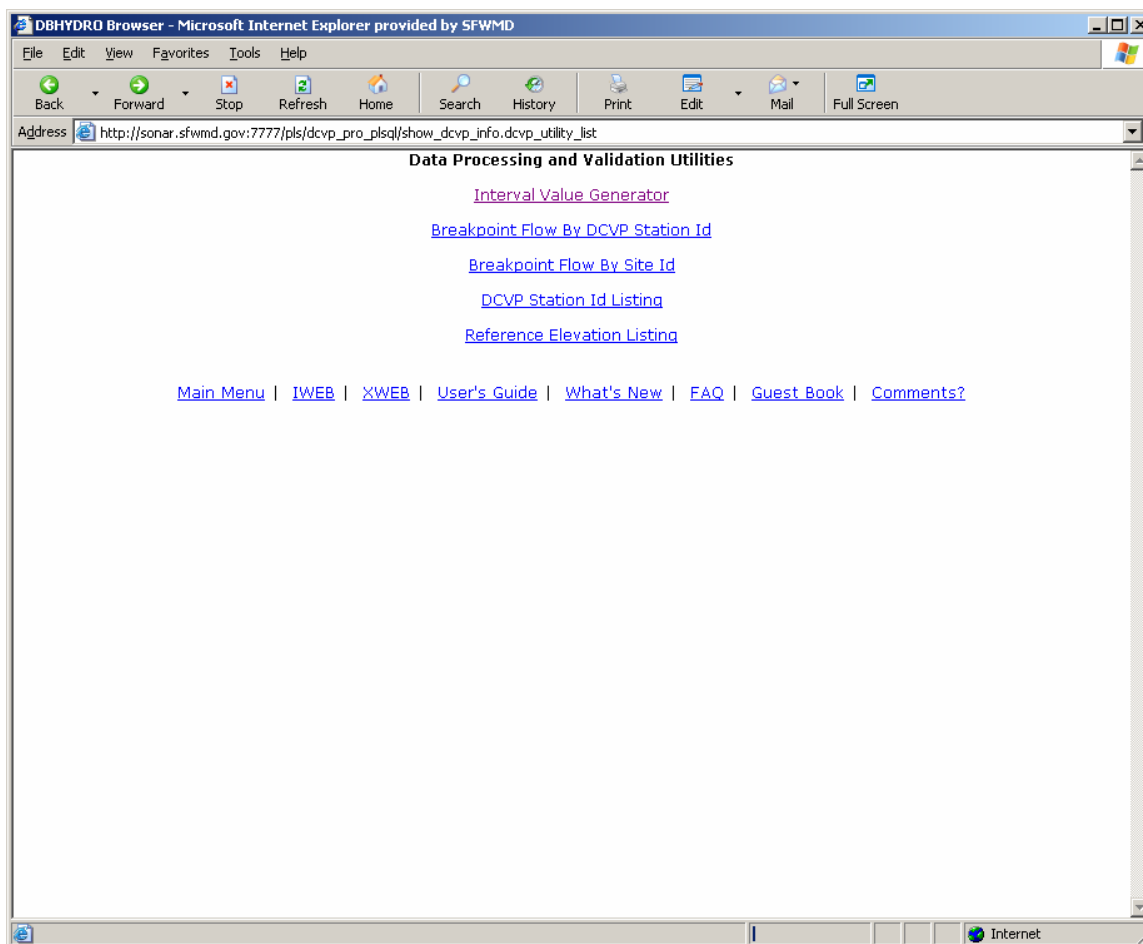
Document: Done

In this example the letter "T" was selected to generate the list of stations indicated. Each of the station names is hyperlinked to information about that station, an example of which is in the Surface Water Data section. One may also get data by station through this screen by checking the "Get Data" box for each station of interest.

Data Processing and Validation Utilities

This option is available on the SFMWD intranet only.

These utilities are primarily used by the SFWMD Engineering Associates who handle the routine processing of instrument readings and perform quality assurance on these readings prior to archival in the corporate database. This list of utilities will expand as development of this component of the DBHYDRO Browser continues.



Interval Value Generator

Selecting “Interval Value Generator” brings you to the following screen:

Interval Value Generator(IVG)/Extract Parameter Screen

Station Id	Start Date	End Date	Site Name	Parameter
2A159+	19990107	20030925	2A159	STAGE
2A300+	19990106	20030827	2A300	STAGE
2A57E+	20000628	20030827	2A57E	STAGE
2A57E+W1	20000628	20030827	2A57E	STAGE
2A57E+W2	20000628	20030827	2A57E	STAGE

Station ID:

Statistic Type:

Reporting Interval: or # of Minutes:

Date Range: YYYYMMDDHH24MI

Start Date:

End Date:

Data Source:

Output Format: Fixed ☐ Comma Delimited ☒

☒ Online ☐ Batch Mode

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The Interval Value Generator (IVG) program allows the user to generate summarized statistical information from any individual or group of individual DCVP Station_ids. Each station_id is considered to be a set of readings from a single sensor or device. IVG can be used to create mean daily values, maximum hourly values, and minimum monthly values, etc... The user may define any date range of interest. IVG works with archived, provisional, and real-time data. Output may be online or via batch job. Batch jobs send email notification when complete.

DCVP Station Id Listing

Returning to the Data Processing and Validation Utilities menu affords us other options. The Data Collection Validation Processing (DCVP) system station reference table may be accessed by selecting “DCVP Station ID Listing”. The selection leads to this screen:

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The address bar shows the URL: http://sonar.sfwmd.gov:7777/pls/dcvp_pro_plsql/show_dcvp_info.show_station_id_characters. The main content area is titled "DCVP Station Id Search Criteria".

At the top of the form, there is a row of buttons for selecting a character to filter by: 2, 3, 6, 7, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, R, S, T, U, V, W, Y. Below this row, there is a text input field for "DCVP Station ID:" with a hint "(Use the \"%\" sign as a wild card.)".

Below the text input field, there are several dropdown menus:

- Application Name:** ALL, RF2 - GRAPHIC RAINFALL DATA, RF3 - MANUAL RAINFALL DATA, SG1 - DIGITAL PUNCHED TAPE DATA
- Parameter Code:** ALL, ? - UNKNOWN, AG - AUTOMATIC GAIN CONTROL (AGC), AT - AIR TEMPERATURE
- Technician:** ALL, AJAYI JOHNSON, ANDREW WALSH, ANDREW WATSON
- Site Name:** ALL, 1-128, 1-141, 1-142
- Agency:** ALL, COE, LWDD, WMD

At the bottom of the form, there are two buttons: "Submit" and "Reset".

At the very bottom of the page, there is a navigation bar with links: [Main Menu](#), [IWEB](#), [XWEB](#), [User's Guide](#), [What's New](#), [FAQ](#), [Guest Book](#), and [Comments?](#)

The user may select all station_ids (timeseries) starting with a given character or query by station_id name (including the % as the wildcard character), application name (the processing method), the parameter code, the technician assigned to the station, the site name, or the agency from whom the data is received.

In this example, we keep it simple...

Selecting the letter “T” generates a list of all DCVP station ids beginning with the letter “T”:

DBHYDRO Browser User Documentation South Florida Water Management District

DBHYDRO Browser - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Stop

Bookmarks Location: http://sonar.sfwmd.gov:9035/dbhydro/show_dcvp_info.show_station_id_info?v_station_id=T3&25

Station Reference Information

Get Data	Station Id	Site Name	Application Name	Parameter Code	Operation Code	Operation Number	Start Date	End Date	Datum & RPOR	Current Status	Technician	Recorder Class	Priority	Proc
<input type="checkbox"/>	T3@H	T3	SG3	H					Info	A		DWR	2	Y
<input type="checkbox"/>	T5+STG	T5	SG3	ST			21-JUL-1992	31-OCT-2001	Info	A	WESTON	SS ARDAMS	2	Y
<input type="checkbox"/>	TAM-BR37	TAMBR37	SG1	ST			29-FEB-1984	09-MAR-1995	Info	D	BROWN	DIGITAL	2	N
<input type="checkbox"/>	TAM-BR52	TAMBR52	SG2	ST			16-MAY-1984	09-MAR-1995	Info	D	BROWN	GRAPHIC	2	N
<input type="checkbox"/>	TAM-BR55	TAMBR55	SG2	ST			16-MAY-1984	09-MAR-1995	Info	D	BROWN	GRAPHIC	2	N
<input type="checkbox"/>	TAM-INDI	TAMINR37	SG1	ST			20-JUN-1981	02-MAY-1983	Info	I	SMELT	DIGITAL	2	N
<input type="checkbox"/>	TAM-TOMA	TAMIATOM	SG1	ST			20-JUN-1981	19-AUG-1999	Info	D	ELLINGTON	DIGITAL	2	N
<input type="checkbox"/>	TAMBR37+	TAMBR37	SG3	ST			13-JAN-1995	02-OCT-2001	Info	A	BROWN	SS CR10	2	Y
<input type="checkbox"/>	TAMBR52+	TAMBR52	SG3	ST			19-JAN-1995	02-OCT-2001	Info	A	BROWN	SS CR10	2	Y
<input type="checkbox"/>	TAMBR55+	TAMBR55	SG3	ST			19-JAN-1995	02-OCT-2001	Info	A	BROWN	SS CR10	2	Y
<input type="checkbox"/>	TAMI WW	WWIND.41	SG1	ST			02-JUL-1986	12-DEC-1994	Info	D	SMELT	DIGITAL	2	N
<input type="checkbox"/>	TAMTOM+	TAMIATOM	SG3	ST			19-AUG-1999	02-OCT-2001	Info	A	ELLINGTON	SS CR10	2	Y
<input type="checkbox"/>	TCEO+	TCEO	SG3	ST			09-DEC-1988	30-APR-1990	Info	A		SS EZL	2	N
<input type="checkbox"/>	TCEO+C	TCEO	SG3	C			09-DEC-1988	09-JAN-1990	Info	A		SS EZL	2	N
<input type="checkbox"/>	TCLB+	TCLB	SG3	ST			14-JUN-1989	30-APR-1990	Info	A		SS EZL	2	N
<input type="checkbox"/>	TCLB+V	TCLB	SG3	V			14-JUN-1989	30-APR-1990	Info	A		SS EZL	2	N
<input type="checkbox"/>	TCN1+H	TCN1	SG3	H			01-JUN-1989	21-FEB-1990	Info	A		SS EZL	2	N
<input type="checkbox"/>	TCN1+T	TCN1	SG3	T			01-JUN-1989	21-FEB-1990	Info	A		SS EZL	2	N
<input type="checkbox"/>	TCN1+V	TCN1	SG3	V			01-JUN-1989	21-FEB-1990	Info	A		SS EZL	2	N
<input type="checkbox"/>	TCN2+	TCN2	SG3	ST			12-APR-1989	07-MAY-1990	Info	A		SS EZL	2	N
<input type="checkbox"/>	TCO1+	TCO1	SG3	ST			12-APR-1989	22-AUG-2001	Info	A	SMELT	SS CR10	1	Y
<input type="checkbox"/>	TCO2+	TCO2	SG3	ST			11-MAY-1989	23-AUG-2001	Info	A	SMELT	SS CR10	1	Y
<input type="checkbox"/>	TCO2+C	TCO2	SG3	C			29-MAY-1989	16-OCT-1991	Info	A	SMELT	SS EZL	1	N

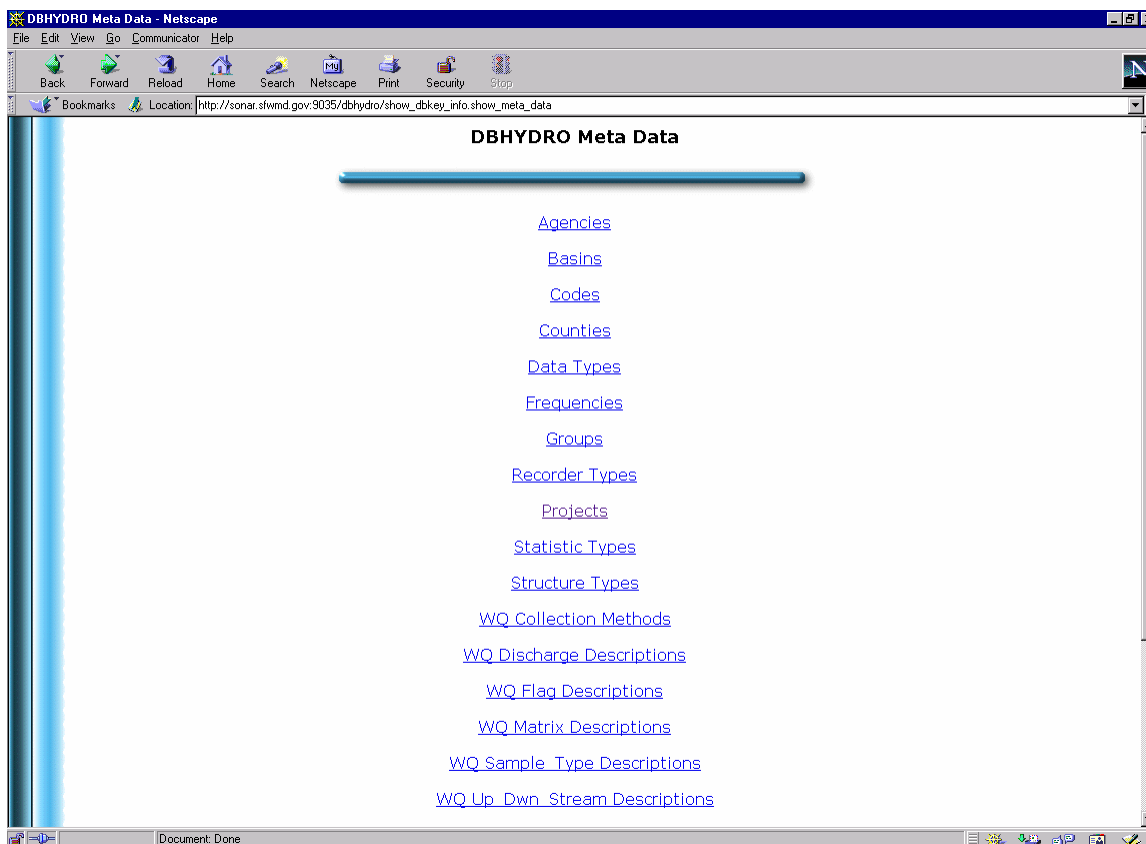
Document: Done

There is an extensive list of DCVP station id attributes, several of which are hyperlinked to other related tables.

Meta Data

Meta data includes descriptive information about the context, quality and condition, or characteristics of the data. In the case of DBHYDRO, each of the attributes of a time series is such meta data. The domains from which these attributes are drawn are accessible by selecting the Meta Data option from the main page.

Upon selection, the following DBHYDRO Meta Data screen appears:



Selecting any one of the items generates an up-to-date list of valid values directly from the database. The option for "Database Table Rows" (off the bottom of the screen) is useful for those of you who are writing your own queries against the database. By accessing this option you can find out how big or small each database table is. Such information is helpful in writing custom programs.

Miscellaneous Items and Reports

New and Discontinued Data Sets

New data sets are continually added to the database. Monitoring may also be discontinued or changed from one method to another. This feature provides information on these types of additions and changes to the database.

Selecting New and Discontinued Data Sets results in this screen...

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

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New and Discontinued Data Sets

Report Type: New Data Sets

Discipline: Surface Water

Report Period: Previous Two Weeks

Submit

[Main Menu](#) | [IWEB](#) | [XWEB](#) | [User's Guide](#) | [What's New](#) | [FAQ](#) | [Guest Book](#) | [Comments?](#)

Internet

You may choose from a variety of report types, disciplines, and date ranges of interest. The following screen displays the results of a query of newly created data sets in the surface water discipline:

DBHYDRO Browser User Documentation South Florida Water Management District

Data Sets Created in previous 30 days for Surface Water

Dbkey	Station	Group	Data Type	Freq	Stat	Strata	Recorder	Agency	Gate No	Registered By	Registered Date	User OSID	Status	Start Date	End Date	
MJ509	G354A_C	STA6	FLOW	DA	MEAN	0	CR10	WMD		AIMOND ALEXIS	30-APR-2001	aalexis				Other Data Sets at Station
MJ510	G354B_C	STA6	FLOW	DA	MEAN	0	CR10	WMD		AIMOND ALEXIS	30-APR-2001	aalexis				Other Data Sets at Station
MJ470	G354C_C	STA6	FLOW	DA	MEAN	0	CR10	WMD		DUANE DUNN	10-JUL-1998	aalexis		29-DEC-2000	30-APR-2001	Other Data Sets at Station
MJ512	G393A_C	STA6	FLOW	DA	MEAN	0	CR10	WMD		AIMOND ALEXIS	30-APR-2001	aalexis				Other Data Sets at Station
MJ511	G393B_C	STA6	FLOW	DA	MEAN	0	CR10	WMD		AIMOND ALEXIS	30-APR-2001	aalexis				Other Data Sets at Station
MJ513	G393C_C	STA6	FLOW	DA	MEAN	0	CR10	WMD		AIMOND ALEXIS	30-APR-2001	aalexis				Other Data Sets at Station

Query returned 6 records.

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By selecting “Other Data Sets at Station” you can see what other time series are, or have been, measured at the station of interest.

All the "headers" for each of the time series at the selected station are displayed here:

The screenshot shows a Netscape browser window titled "DBHYDRO Browser - Netscape". The address bar displays the URL: http://sonar.sfwmd.gov:9035/dbhydro/dbkey_notif_pkg.show_dbkeys?v_num_days=&v_report_type=DBKEYLIST&v_station=G354C_C. The main content area displays the title "Data Sets at Station G354C_C" above a table with 15 columns: Dbkey, Station, Group, Data Type, Freq, Stat, Strata, Recorder, Agency, Gate No, Registered By, Registered Date, User OSID, Status, Start Date, and End Date. Two records are listed in the table. Below the table, it says "Query returned 2 records." and there is a "Home" button. At the bottom of the content area, there are links: [iweb](#) | [xweb](#) | [Comments?](#). The browser's status bar at the bottom shows "Document: Done".

Dbkey	Station	Group	Data Type	Freq	Stat	Strata	Recorder	Agency	Gate No	Registered By	Registered Date	User OSID	Status	Start Date	End Date
HD875	G354C_C	STA6	FLOW	DA	MEAN	0	CR10	WMD		DUANE DUNN	10-JUL-1998			01-DEC-1997	30-APR-2001
MJ470	G354C_C	STA6	FLOW	DA	MEAN	0	CR10	WMD		DUANE DUNN	10-JUL-1998	aalexis		29-DEC-2000	30-APR-2001

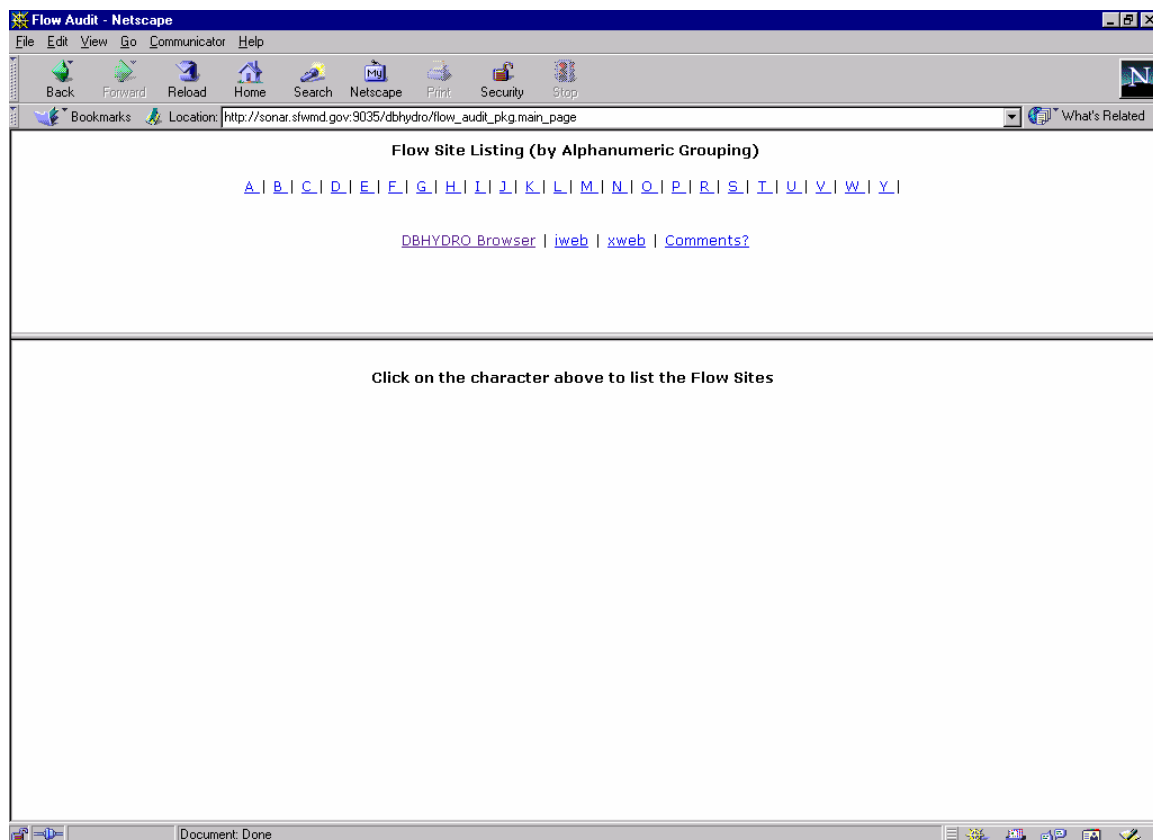
Flow Data Change Audit

This function is available on the SFWMD intranet only.

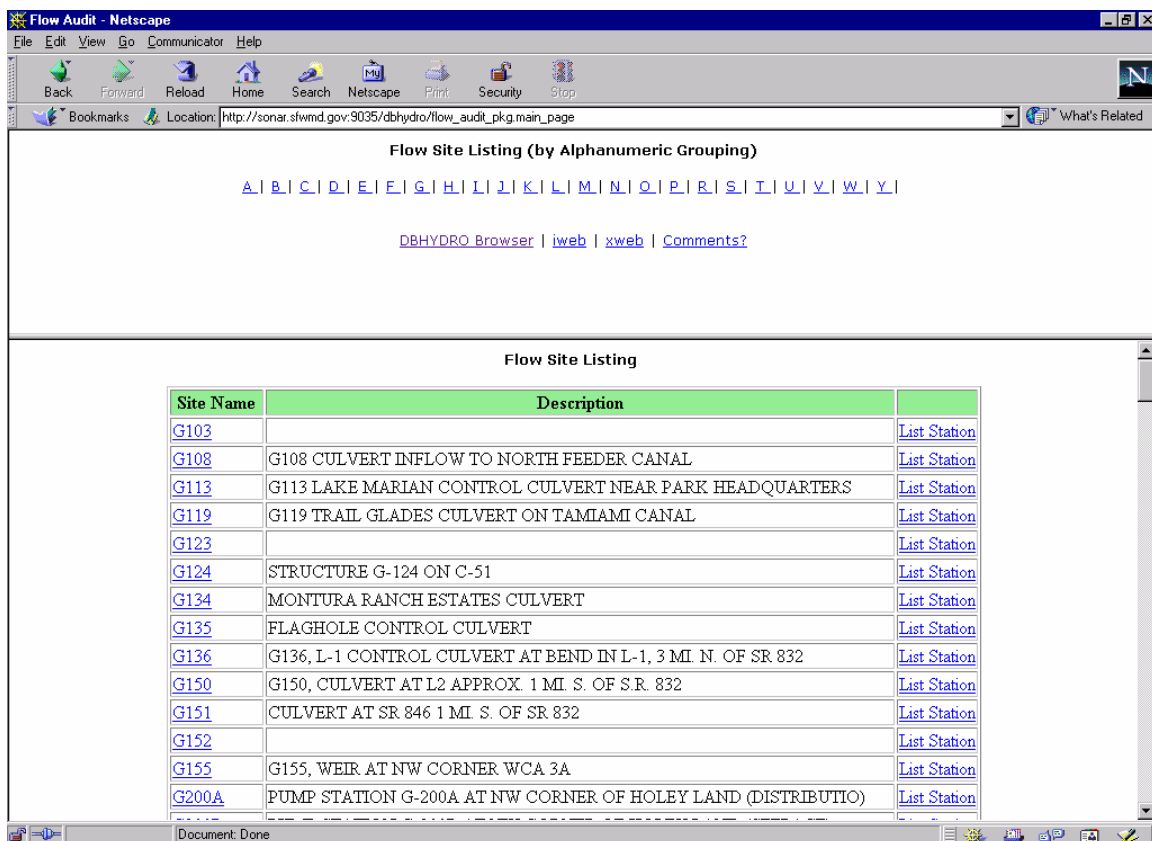
Sometimes it is necessary to make changes to flow data. These reasons for change include:

- Changes to the computer programs such as “FLOW” which are used to calculate discharge
- Changes to rating curves by which the flow is derived from water levels and structure operations.
- Datum adjustments due to more accurate survey information.
- Reprocessing of data to ensure adherence to Standard Operating Procedures
- Changes in structure geometry such as culvert diameter or gate width.

Upon selecting “Flow Data Change Audit” the user is presented with the following screen:



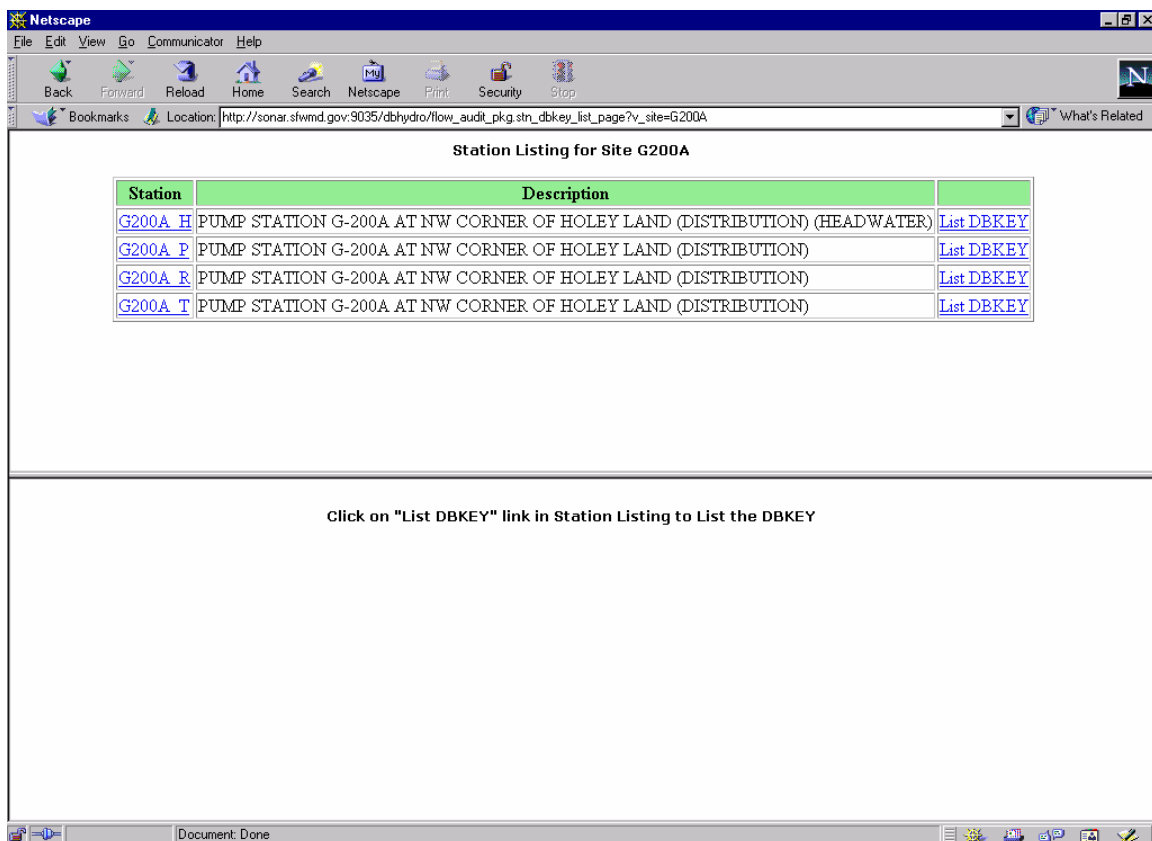
Choose the first letter of the site name in which you are interested.



In this case, the letter “G” was selected. A list of sites containing flow data is presented in the bottom frame.

By selecting “List Station” the user will generate a list of all stations at the site.

These are the stations at site G200A:



By selecting “List DBKEY” for station G200A_P, a list of the flow data time series that are available in DBHYDRO is displayed in the bottom frame:

Station Listing for Site G200A

Station	Description	
G200A_H	PUMP STATION G-200A AT NW CORNER OF HOLEY LAND (DISTRIBUTION) (HEADWATER)	List DBKEY
G200A_P	PUMP STATION G-200A AT NW CORNER OF HOLEY LAND (DISTRIBUTION)	List DBKEY
G200A_R	PUMP STATION G-200A AT NW CORNER OF HOLEY LAND (DISTRIBUTION)	List DBKEY
G200A_T	PUMP STATION G-200A AT NW CORNER OF HOLEY LAND (DISTRIBUTION)	List DBKEY

Flow DBKEY Listing for Station G200A_P

	DBKEY	Station	Group	Data Type	Freq	Stat	Strata	Recorder	Struct	Agency	County	Basin	Start Date	End Date
Show Audit	13111	G200A_P	G200A	FLOW	DA	MEAN	0	NA	PUMP	WMD	PAL	S8	20-AUG-1990	12-SEP-1994
Show Audit	15154	G200A_P	G200A	FLOW	DA	MEAN	0	001	PUMP	WMD	PAL	S8	20-AUG-1990	01-MAY-2001
Show Audit	15736	G200A_P	G200A	FLOW	DA	MEAN	0	PREF	PUMP	WMD	PAL	S8	28-OCT-1991	31-DEC-2000

Select Audit Period

1 Year

Select the desired audit period. In this example the last year's worth of audit records will be displayed.

Selecting the "Show Audit" button results in the following list of changes that have occurred to this data set:

Flow Audit - Netscape

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Bookmarks Location: audit_pkg.flow_audit_frame?v_dbkey=15154&v_daily_date=&v_revision_date=20000517&v_audit_date_created=20010517&v_called_from=DATA What's Related

Time Series Data Audit for DBKEY 15154 from 17-MAY-2000 thru 17-MAY-2001

DBKEY	Daily Date	Old Value	Old Code	New Value	New Code	Changed Date	Changed By	Comments
15154	09-MAR-2000	127.539		127.55		06-OCT-2000 17:25	datamgmt	
15154	10-MAR-2000	238.104		238.117		06-OCT-2000 17:25	datamgmt	
15154	16-MAR-2000	158.286		158.291		06-OCT-2000 17:25	datamgmt	
15154	05-APR-2000	83.602		83.603		06-OCT-2000 17:25	datamgmt	
15154	12-APR-2000	200.077		200.078		06-OCT-2000 17:25	datamgmt	
15154	14-APR-2000	202.643	E	202.644	E	06-OCT-2000 17:25	datamgmt	
15154	04-MAY-2000	415.397	P	417.158		22-MAY-2000 07:50	datamgmt	
15154	25-JUN-2000	94.427		94.43		06-OCT-2000 17:25	datamgmt	
15154	26-JUN-2000	409.239		409.25		06-OCT-2000 17:25	datamgmt	
15154	24-JUL-2000	140.375	E	140.376	E	06-OCT-2000 17:25	datamgmt	
15154	26-JUL-2000	51.002		51.003		06-OCT-2000 17:25	datamgmt	
15154	26-JUL-2000	50.857		51.002		21-AUG-2000 16:19	rodierno	
15154	27-JUL-2000	67.945	E	67.95	E	06-OCT-2000 17:25	datamgmt	
15154	28-JUL-2000	37.435		37.437		06-OCT-2000 17:25	datamgmt	
15154	30-JUL-2000	98.239		98.242		06-OCT-2000 17:25	datamgmt	
15154	01-AUG-2000	87.049		87.05		06-OCT-2000 17:25	datamgmt	
15154	12-SEP-2000	258.783	E	258.782	E	21-SEP-2000 09:40	rodierno	

Computer Program Log

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Document: Done

By selecting the “Computer Program Log” button one can see the history of software changes that have been made that may have been a factor in the changed data value or changed quality code:

Flow Audit - Netscape

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Bookmarks Location: audit_pkg.flow_audit_frame?v_dbkey=15154&v_daily_date=&v_revision_date=20000517&v_audit_date_created=20010517&v_called_from=PROG What's Related

Program Change Log from 17-MAY-2000 thru 17-MAY-2001

Program Name	Changed Date	Changed By	Comments
QCULCIR	24-OCT-2000 15:08	rmason	Added logic per Brian Turcotte to handle arc cos boundary conditions
R_SWITCH_ALL_STATIONS	31-AUG-2000 00:00	CORRY	Increased structure list array size from 200 to 400. OMD needed this because real time flow now addresses more than 200 structures. Other routines changed: FILE_STATIONS, TRANSFER_PARAM
QUNCON,QSPILL	02-AUG-2000 00:00	CORRY	Added downstream value for S49 computation.
QCULV	27-JUL-2000 00:00	CORRY	Fixed reverse flow sign cancellation problem. Sign was getting reversed twice in error.
COEFCON	17-MAY-2000 00:00	CORRY	Eliminated adjustment to S59 per Emile

Query returned 5 records

Daily Data Audit

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Document: Done

Selecting the dbkey 15154 from the “Flow DBKEY Listing” page results in the Dbkey Detailed Information screen:

Time Series Detailed Information

Dbkey:	15154
Data Type:	FLOW
Frequency:	DAILY
Statistic Type:	MEAN VALUE FOR INTERVAL
Recorder:	UNKNOWN CHART-TYPE RECORDER
Start Date:	20-AUG-1990
End Date:	01-MAY-2001
Station:	G200A_P
Station Description:	PUMP STATION G-200A AT NW CORNER OF HOLEY LAND (DISTRIBUTION)
Agency:	SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Gate Number:	0
Latitude:	262604.272
Longitude:	804839.215
X Coordinate:	718048.704
Y Coordinate:	763669.496
XY Error:	50
Site:	G200A
Site Id:	23546354
Alternate Id:	23546354
USGS Id:	
Station Reference:	
Structure Type:	PUMP

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The site id field is hyperlinked to more detailed information about that site id.

Selecting the site id results in site information and the opportunity to show a station id listing:

The screenshot shows a Netscape browser window titled "DBHYDRO Browser - Netscape". The address bar displays the URL: http://sonar.sfwmd.gov:9035/dbhydro/show_dcvp_info.site_id_info?v_site_id=23546354. The main content area is titled "Site_Id Information for 23546354" and contains a table with the following data:

Site_Id:	23546354
Site Name:	G200A
Project Code:	
Start Date:	28-OCT-1991
End Date:	
Common_name:	PUMP STATION G-200A AT NW CORNER OF HOLEY LAND (DISTRIBUTIO)
Site Address:	FOLLOW E. SIDE OF MIAMI CANAL (L-23) N. FROM S8 +/- 7.6 MILES.
Site Type:	RE
Site Group:	EVAA
Site Priority:	3
Site Notes:	REF. ELEV. 15.03 W. 18"PVC HW (WATM), 17.71 E. 24" PVC WELL TW (WATD) 1/28/98; BM SFWMD CAP STAMPED BM 1990, ELEVATION 16.72 (7/28/97).
Site Status:	A
Site Status Date:	18-FEB-1992

Below the table, there is a link [Show Station_Id Listing](#), a [Home](#) button, and a footer with links [iweb](#) | [xweb](#) | [Comments?](#).

The station id listing gives the precise list of “raw data” time series that were used as input to the flow calculation process.

Selecting “Show Station ID Listing” results in the following screen:

Station_Id Listing - Netscape

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Bookmarks Location: http://sonar.sfwmd.gov:9035/dbhydro/show_dcvp_info.station_id_list_frame?v_site_id=23546354 What's Related

List of Station_Id for site_id 23546354

[G200-1](#)
[G200-2](#)
[G200-3](#)
[G200-H](#)
[G200-T](#)
[Back to Site_Id Page](#)

STATION ID : G200-1

Main Period of Record

Station Id	Current Status	Start Date	End Date	Adjust Date
G200-1	Active	28-OCT-1991:0007	10-MAY-2001:2359	16-MAY-2001:0641

Datum Adjustment

No records found

Replacement Period of Record

Station Id	Start Date	End Date	Adjust Date
G200-1	01-DEC-1992:0008	02-DEC-1992:1200	09-NOV-1993:1449
G200-1	20-JUN-1995:1713	21-JUN-1995:0000	21-JUL-1995:1151

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Document: Done

Selecting a station_id on the left frame results in the associated period of record, datum adjustment, and replacement period of record information in the right frame.

SFWMD Daily System Storage Report

S F W M D D a i l y S y s t e m S t o r a g e R e p o r t						
Page 1						
Calculation Date -- 02/11/2002 Basis Date -- 10/01/2001						
=====						
Calculation Date Data						Difference
Sub-Basin and Gage	02/08 Stage	Reg. Sched.	Current Stage	Current Storage-AF	Basis Data Storage-AF	in Storage-AF
=====						
Myrtle (S-57hw)	61.09	61.27	61.04	8630	9205	-575

Alligator (S-58hw)	62.69	64.00	62.67	48619	45199	3420

Mary Jane (S-62hw)	60.62	61.00	60.44	23340	20930	2410

Gentry (S-63hw)	61.31	61.50	61.32	16614	15772	842

East Tohopekaliga	57.18	58.00	57.22	115816	113384	2432

Tohopekaliga	54.38	55.00	54.42	135110	123380	11730

Lake Kissimmee Avg.	50.32	51.91	50.29	264860	339200	-74340

Istokpoga (S-68hw)	39.54	36.50	39.53	187495	180368	7127
=====						
Upper Sub-System Gain in Storage for 02/11/2002 --- -46954 acre-feet						
Comparative Gain in Storage 02/08/2002 --- -46154 acre-feet						
=====						
Lake Okeechobee Avg.	14.46	16.66	14.51E	3758030E	3576830	181200E

WCA #1	16.53	16.71	16.72	261800	347200	-85400

WCA #2	11.07	11.00	11.31	57166	180000	-122834

WCA #3	10.15	10.23	10.18	879200	1171700	-292500
=====						
Lower Sub-System Gain in Storage for 02/11/2002 --- -319534e acre-feet						
Comparative Gain in Storage 02/08/2002 --- -392280 acre-feet						
=====						
* GIVEN REGULATION SCHEDULE CORRESPONDS TO LOWER LIMIT OF ZONE "B".						
TOTAL SYSTEM STORAGE CHANGE SINCE 10/01/2001 BY 02/11/2002 -366488e acre-feet						
COMPARATIVE CHANGE IN STORAGE BY 02/08/2002 -438434 acre-feet						
=====						

District Daily Rainfall Report

SFWMD Weather Information - Netscape

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Bookmarks Netsite: <http://www.sfwmd.gov/org/omd/ops/weather/rain.html>

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sfwmd.gov

South Florida Water Management District Weather
 Daily Rainfall Report
 Weighted Rainfall Averages for Feb. 09, 2002

RAINFALL BASIN	LAST 24HRS	24HR FCST	RVSD FCST	PAST WEEK	MONTH TOTAL	MNTH NORM	MNTH %NORM	LAST 30DAYS	30DAY %NORM
UPPER KISSIMMEE	0.00	0.00	0.00	0.55	0.55	0.73	76%	1.57	65%
LOWER KISSIMMEE	0.00	0.00	0.00	0.28	0.29	0.64	45%	1.39	70%
LAKE OKEECHOBEE	0.00	0.00	0.00	0.02	0.02	0.59	3%	0.83	40%
EAA EAST	0.00	0.00	0.00	0.00	0.00	0.53	0%	0.68	32%
EAA WEST	0.00	0.00	0.00	0.00	0.00	0.53	0%	0.92	45%
CONSERV AREA 1&2	0.00	0.00	0.00	0.29	0.43	0.63	68%	0.69	30%
CONSERV AREA 3	0.00	0.00	0.00	0.29	0.29	0.64	45%	0.65	31%
MARTIN-ST LUCIE	0.00	0.00	0.00	0.00	0.07	0.75	9%	1.28	50%
PALM BEACH COUNTY	0.00	0.00	0.00	0.02	0.26	0.67	39%	1.00	40%
BROWARD COUNTY	0.00	0.00	0.00	0.19	0.31	0.67	47%	0.46	18%
DADE COUNTY	0.00	0.00	0.00	0.03	0.14	0.67	22%	0.18	7%
LOWER EAST COAST	0.00	0.00	0.00	0.05	0.22	0.67	33%	0.56	22%
E. CALOOSAHATCHEE	0.00	0.00	0.00	0.00	0.00	0.58	0%	1.50	71%
BIG CYPRESS	0.00	0.00	0.00	0.21	0.21	0.60	35%	0.66	31%
SOUTHWEST COAST	0.00	0.00	0.00	0.03	0.03	0.65	5%	1.30	55%
DISTRICT	0.00	0.00	0.00	0.14	0.17	0.64	27%	1.02	45%

24-HOUR RAINGAGE READINGS (M=Missing I=Inactive T=Trace E=Estimated)

UPPER KISSIMMEE:

ALL2 .00
 AVALON .00
 C58L73 .00

Document: Done

Enhancements

A variety of enhancements are underway. Major updates occur on a quarterly or more frequent basis.

Contact Brian Turcotte by phone at 561-682-6579 or email at bturcott@sfwmd.gov to discuss or request ideas for improvement.

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